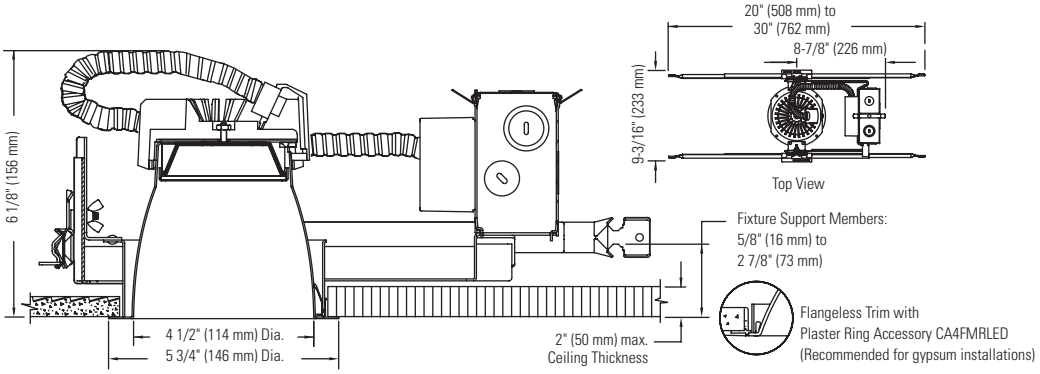

Light Engine Series	Lumen Package (nominal)	Input Wattage*
C4L10DL	1000	20W

*+/- 5%

Frame-in Kit Series*	Installation Options	Input Voltage Options
C4L10	New Construction/Remodeler	120V, 277V
CUL10	Retrofit	120V

*See frame-in kit specification sheet for details

Ordering Guide: Light Engines

Calculite	Aperture	LED Technology	Fixture Lumens	Style	Color Temperature	Reflector Finish	Flange	Additional Options
C	4	L	10	DL	35K	CL	W	

Features

Aperture: 4 1/2" (114mm) I.D., 5 3/4" (146mm) O.D.
Reflector Cone: Aluminum. Provides 50° cutoff to source & source image. Self-flanged.
Depth (including Frame-in kit): 6 1/8" (156mm)
Power Connection: Attaches to frame-in kit via push-in connector (on frame). Removable cover provides access.

Technology

LED Board: Array of high brightness royal blue LED's.
Remote Phosphor Technology: Patented remote phosphor technology provides increased efficiency and color consistency. Phosphor lens assembly positioned in front of LED array converts blue light to white. Color shift will not exceed +/- 100K over life.
Optical Mixing Chamber: Lightolier-specific mixing chamber redirects back-reflected light through aperture resulting in 20% increase in efficiency.
Thermal Management: Proprietary heat sink and thermal design along with clean room assembly ensures specified performance.
Rated Life: 50,000 hours at 70% lumen maintenance (L70)
Photometric Performance: Tested in accordance to IESNA LM-79-2008

Luminaire Options

Color Temperatures:

2700K	27K
3000K	30K
3500K	35K
4000K	40K

Reflector Finishes:

Specular Clear	CL
Comfort Clear	CCL
Comfort Clear Diffuse	CCD
Champagne Bronze	CCZ
Painted White	WH

Luminaire Options

Flanges:

Painted White	W
Aperture-Matching / Polished	P
Flush-mount / Flangeless*	FT

*Accessory CA4FMRLED recommended for gypsum installations.

Dimming Capability: See LED-DIM specification sheet
Emergency Capability (Integral): Add "EM" suffix. See LED-EM spec sheet.
Emergency Capability (Inverter): See LED-LMI specification sheet

Labels

UL (suitable for wet locations), cUL, I.B.E.W.
5 Year Warranty

Job Information **Type:**

Job Name:

Cat. No.:

Lamp(s):

Notes:

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PHILIPS
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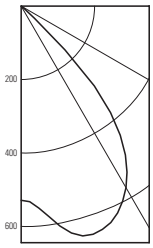
20W LED, 2700K, CL FINISH TRIM

Candlepower Distribution



ANGLE	MEAN CP	LUMENS
0	529	
5	552	56
10	608	
15	648	182
20	647	
25	622	284
30	571	
35	495	303
40	379	
45	169	132
50	12	
55	4	4
60	2	
65	1	1
70	0	
75	0	0
80	0	
85	0	0
90	0	

Trim:
C420LEDDL27KCLW

Output lumens: 963 lm

Correlated Color Temp[1]: 2700K

Input Watts[2]: 19.8 w

Efficacy: 48.6 lm/w

CRI[4]: 80

Spacing Criterion: 1.3

CEILING	80%				70%		50%		30%		0%
WALL	70	50	30	10	50	10	50	10	50	10	0
RCR	Zonal Cavity Method - Effective Floor Cavity Reflectance = 20%										
0	119	119	119	119	116	116	111	111	106	106	100
1	113	110	107	105	108	103	104	100	100	97	92
2	107	101	97	93	100	92	96	90	93	88	85
3	100	93	88	83	92	83	89	81	87	80	77
4	94	86	80	75	85	75	83	74	81	73	70
5	89	80	73	68	79	68	77	67	75	67	64
6	84	74	67	62	73	62	71	61	70	61	59
7	79	68	61	57	67	57	66	56	65	56	54
8	74	63	57	52	63	52	62	52	60	51	50
9	70	59	52	48	58	48	57	48	56	47	46
10	66	55	49	44	55	44	54	44	53	44	42

ZONAL LUMENS AND PERCENTAGES

ZONE	LUMENS	%LUMINAIRE
0-30	521	54.1%
0-40	825	85.7%
0-60	962	99.9%
0-90	963	100.0%

Single Unit Data

Height to Lighted Plane	Initial Footcandles	Beam Diameter
5'	21	7 '
6'	15	9 '
7'	11	10 '
8'	8	12 '
9'	7	13 '

Multiple Unit Data - RCR 2

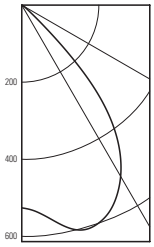
Spacing On Ctr.	Initial Footcandles	Watts/ Sq. Ft.
5'	43	0.88
6'	28	0.58
7'	20	0.41
8'	17	0.34
9'	14	0.27

38'x38'x10' Room, Workplane 2 1/2' above floor, 80/50/20% Reflectances

CERTIFIED TEST REPORT NO. F09931[3]

20W LED, 2700K, CCL FINISH TRIM

Candlepower Distribution



ANGLE	MEAN CP	LUMENS
0	526	
5	542	54
10	578	
15	606	170
20	599	
25	568	259
30	515	
35	439	269
40	329	
45	154	123
50	30	
55	12	12
60	6	
65	3	4
70	2	
75	1	1
80	0	
85	0	0
90	0	

Trim:
C420LEDDL27KCCLW

Output lumens: 893 lm

Correlated Color Temp[1]: 2700K

Input Watts[2]: 19.8 w

Efficacy: 45.1 lm/w

CRI[4]: 80

Spacing Criterion: 1.3

CEILING	80%				70%		50%		30%		0%
WALL	70	50	30	10	50	10	50	10	50	10	0
RCR	Zonal Cavity Method - Effective Floor Cavity Reflectance = 20%										
0	119	119	119	119	116	116	111	111	106	106	100
1	113	110	107	105	108	103	104	100	100	97	92
2	106	101	97	93	99	92	96	90	93	88	84
3	100	93	88	83	92	82	89	81	86	80	77
4	94	86	80	75	85	74	82	73	80	73	70
5	89	79	73	68	78	68	76	67	75	66	64
6	83	73	67	62	72	62	71	61	69	61	59
7	78	68	61	56	67	56	66	56	65	56	54
8	74	63	56	52	63	52	61	51	60	51	49
9	70	59	52	48	58	48	57	47	56	47	46
10	66	55	48	44	54	44	54	44	53	44	42

ZONAL LUMENS AND PERCENTAGES

ZONE	LUMENS	%LUMINAIRE
0-30	483	54.1%
0-40	753	84.3%
0-60	888	99.5%
0-90	893	100.0%

Single Unit Data

Height to Lighted Plane	Initial Footcandles	Beam Diameter
5'	21	7 '
6'	15	9 '
7'	11	10 '
8'	8	12 '
9'	6	13 '

Multiple Unit Data - RCR 2

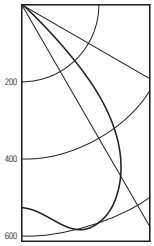
Spacing On Ctr.	Initial Footcandles	Watts/ Sq. Ft.
5'	40	0.88
6'	26	0.58
7'	19	0.41
8'	16	0.34
9'	13	0.27

38'x38'x10' Room, Workplane 2 1/2' above floor, 80/50/20% Reflectances

CERTIFIED TEST REPORT NO. F09932[3]

20W LED, 2700K, CCD FINISH TRIM

Candlepower Distribution



ANGLE	MEAN CP	LUMENS
0	543	
5	553	55
10	580	
15	599	168
20	583	
25	546	249
30	487	
35	407	249
40	299	
45	159	126
50	61	
55	30	29
60	17	
65	10	10
70	6	
75	3	4
80	2	
85	1	1
90	0	

Trim:
C420LEDDL27KCCDW

Output lumens: 891 lm

Correlated Color Temp[1]: 2700K

Input Watts[2]: 19.8 w

Efficacy: 45.0 lm/w

CRI[4]: 80

Spacing Criterion: 1.2

CEILING	80%				70%		50%		30%		0%
WALL	70	50	30	10	50	10	50	10	50	10	0
RCR	Zonal Cavity Method - Effective Floor Cavity Reflectance = 20%										
0	119	119	119	119	116	116	111	111	106	106	100
1	113	110	107	104	107	103	103	99	99	96	92
2	106	100	96	92	99	91	95	89	92	87	83
3	100	92	86	82	91	81	88	80	86	79	76
4	93	85	78	74	84	73	81	72	79	71	69
5	88	78	71	66	77	66	75	66	74	65	63
6	82	72	65	60	71	60	70	60	68	59	57
7	78	67	60	55	66	55	65	55	64	54	52
8	73	62	55	51	62	50	60	50	59	50	48
9	69	58	51	47	57	47	56	46	55	46	44
10	65	54	47	43	54	43	53	43	52	43	41

ZONAL LUMENS AND PERCENTAGES

ZONE	LUMENS	%LUMINAIRE
0-30	471	52.8%
0-40	721	80.9%
0-60	877	98.3%
0-90	891	100.0%

Single Unit Data

Height to Lighted Plane	Initial Footcandles	Beam Diameter
5'	22	7 '
6'	15	8 '
7'	11	10 '
8'	8	11 '
9'	7	12 '

Multiple Unit Data - RCR 2

Spacing On Ctr.	Initial Footcandles	Watts/ Sq. Ft.
5'	40	0.88
6'	26	0.58
7'	19	0.41
8'	16	0.34
9'	12	0.27

38'x38'x10' Room, Workplane 2 1/2' above floor, 80/50/20% Reflectances

CERTIFIED TEST REPORT NO. F09933[3]

[1]Correlated Color Temperature within specs as defined in ANSI_NEMA_ANSLG C78.377-2008: Specifications for the Chromaticity of Solid State Lighting Products.
[2]Wattage controlled to within 65%.
[3]Tested using absolute photometry as specified in LM79: IESNA Approved Method for the Electrical and Photometric Measurements of Solid-State Lighting Products.
[4]Color Rendering Index within +/- 2%.

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PHILIPS
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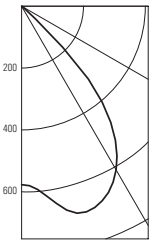
20W LED, 3000K, CL FINISH TRIM

Candlepower Distribution



ANGLE	MEAN CP	LUMENS
0	577	
5	595	59
10	647	
15	693	194
20	692	
25	665	304
30	611	
35	529	325
40	405	
45	188	146
50	15	
55	4	5
60	2	
65	1	1
70	1	
75	0	0
80	0	
85	0	0
90	0	

Trim:
C420LEDDL30KCLW

Output lumens: 1034 lm

Correlated Color Temp[1]: 3000K

Input Watts[2]: 19.8 w

Efficacy: 52.2 lm/w

CRI[4]: 79

Spacing Criterion: 1.3

CEILING	80%				70%		50%		30%		0%
WALL	70	50	30	10	50	10	50	10	50	10	0
RCR	Zonal Cavity Method - Effective Floor Cavity Reflectance = 20%										
0	119	119	119	119	116	116	111	111	106	106	100
1	113	110	107	105	108	103	104	100	100	97	92
2	107	101	97	93	100	92	96	90	93	88	85
3	100	93	88	83	92	83	89	81	87	80	77
4	94	86	80	75	85	75	83	74	81	73	70
5	89	79	73	68	78	68	77	67	75	67	64
6	83	73	67	62	73	62	71	61	70	61	59
7	79	68	61	57	67	56	66	56	65	56	54
8	74	63	56	52	63	52	61	52	60	51	50
9	70	59	52	48	58	48	57	48	56	47	46
10	66	55	48	44	54	44	54	44	53	44	42

ZONAL LUMENS AND PERCENTAGES

ZONE	LUMENS	%LUMINAIRE
0-30	557	53.9%
0-40	882	85.3%
0-60	1033	99.9%
0-90	1034	100.0%

Single Unit Data

Height to Lighted Plane	Initial Footcandles	Beam Diameter
5'	23	7 '
6'	16	9 '
7'	12	10 '
8'	9	12 '
9'	7	13 '

Multiple Unit Data - RCR 2

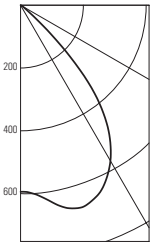
Spacing On Ctr.	Initial Footcandles	Watts/ Sq. Ft.
5'	46	0.88
6'	30	0.58
7'	22	0.41
8'	18	0.34
9'	15	0.27

38'x38'x10' Room, Workplane 2 1/2' above floor, 80/50/20% Reflectances

CERTIFIED TEST REPORT NO. 15735[3]

20W LED, 3000K, CCL FINISH TRIM

Candlepower Distribution



ANGLE	MEAN CP	LUMENS
0	594	
5	606	59
10	643	
15	670	188
20	663	
25	630	288
30	572	
35	534	300
40	367	
45	185	146
50	46	
55	15	17
60	8	
65	4	5
70	2	
75	1	1
80	1	
85	0	0
90	0	

Trim:
C420LEDDL30KCCLW

Output lumens: 1004 lm

Correlated Color Temp[1]: 3000K

Input Watts[2]: 19.8 w

Efficacy: 50.7 lm/w

CRI[4]: 79

Spacing Criterion: 1.2

CEILING	80%				70%		50%		30%		0%
WALL	70	50	30	10	50	10	50	10	50	10	0
RCR	Zonal Cavity Method - Effective Floor Cavity Reflectance = 20%										
0	119	119	119	119	116	116	111	111	107	107	100
1	113	110	107	105	108	103	104	100	100	97	92
2	106	101	96	93	99	92	96	90	93	88	84
3	100	93	87	83	91	82	89	81	86	80	77
4	94	86	79	75	84	74	82	73	80	72	70
5	88	79	72	67	78	67	76	67	74	66	64
6	83	73	66	61	72	61	71	61	69	60	58
7	78	68	61	56	67	56	66	56	64	55	53
8	74	63	56	51	62	51	61	51	60	51	49
9	69	58	52	47	58	47	57	47	56	47	45
10	65	54	48	44	54	44	53	43	52	43	42

ZONAL LUMENS AND PERCENTAGES

ZONE	LUMENS	%LUMINAIRE
0-30	536	53.3%
0-40	836	83.2%
0-60	998	99.4%
0-90	1004	100.0%

Single Unit Data

Height to Lighted Plane	Initial Footcandles	Beam Diameter
5'	24	7 '
6'	17	8 '
7'	12	10 '
8'	9	11 '
9'	7	12 '

Multiple Unit Data - RCR 2

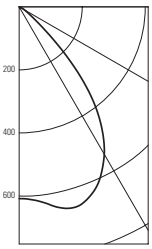
Spacing On Ctr.	Initial Footcandles	Watts/ Sq. Ft.
5'	45	0.88
6'	30	0.58
7'	21	0.41
8'	18	0.34
9'	14	0.27

38'x38'x10' Room, Workplane 2 1/2' above floor, 80/50/20% Reflectances

CERTIFIED TEST REPORT NO. F09303[3]

20W LED, 3000K, CCD FINISH TRIM

Candlepower Distribution



ANGLE	MEAN CP	LUMENS
0	609	
5	617	60
10	643	
15	660	185
20	644	
25	604	276
30	540	
35	451	277
40	332	
45	185	146
50	77	
55	36	36
60	20	
65	12	12
70	7	
75	4	4
80	2	
85	1	1
90	0	

Trim:
C420LEDDL30KCCDW

Output lumens: 997 lm

Correlated Color Temp[1]: 3000K

Input Watts[2]: 19.8 w

Efficacy: 50.4 lm/w

CRI[4]: 79

Spacing Criterion: 1.2

CEILING	80%				70%		50%		30%		0%
WALL	70	50	30	10	50	10	50	10	50	10	0
RCR	Zonal Cavity Method - Effective Floor Cavity Reflectance = 20%										
0	119	119	119	119	116	116	111	111	107	107	100
1	113	110	107	104	107	103	103	99	100	96	92
2	106	100	96	92	99	91	95	89	92	87	83
3	100	92	86	82	91	81	88	80	85	79	76
4	93	85	78	73	83	73	81	72	79	71	69
5	88	78	71	66	77	66	75	65	73	65	62
6	82	72	65	60	71	60	70	59	68	59	57
7	77	67	60	55	66	55	65	54	63	54	52
8	73	62	55	50	61	50	60	50	59	50	48
9	69	58	51	46	57	46	56	46	55	46	44
10	65	54	47	43	53	43	52	43	52	42	41

ZONAL LUMENS AND PERCENTAGES

ZONE	LUMENS	%LUMINAIRE
0-30	521	52.2%
0-40	798	80.0%
0-60	980	98.3%
0-90	997	100.0%

Single Unit Data

Height to Lighted Plane	Initial Footcandles	Beam Diameter
5'	24	6 '
6'	17	8 '
7'	12	9 '
8'	10	10 '
9'	8	12 '

Multiple Unit Data - RCR 2

Spacing On Ctr.	Initial Footcandles	Watts/ Sq. Ft.
5'	44	0.88
6'	29	0.58
7'	21	0.41
8'	17	0.34
9'	14	0.27

38'x38'x10' Room, Workplane 2 1/2' above floor, 80/50/20% Reflectances

CERTIFIED TEST REPORT NO. F09304[3]

[1]Correlated Color Temperature within specs as defined in ANSI NEMA ANSLG C78.377-2008: Specifications for the Chromaticity of Solid State Lighting Products.
[2]Wattage controlled to within 65%.
[3]Tested using absolute photometry as specified in LM79: IESNA Approved Method for the Electrical and Photometric Measurements of Solid-State Lighting Products.
[4]Color Rendering Index within +/- 2%.

Job Information **Type:**

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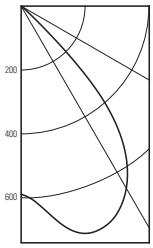
20W LED, 3500K, CL FINISH TRIM

Candlepower Distribution



ANGLE	MEAN CP	LUMENS
0	589	
5	622	63
10	690	
15	739	207
20	741	
25	716	327
30	661	
35	575	352
40	443	
45	207	158
50	16	
55	5	5
60	2	
65	1	1
70	0	
75	0	0
80	0	
85	0	0
90	0	

Trim: C420LEDDL35KCLW

Output lumens: 1116 lm

Correlated Color Temp[1]: 2700K

Input Watts[2]: 19.8 w

Efficacy: 56.4 lm/w

CRI[4]: 76

Spacing Criterion: 1.2

CEILING	80%				70%		50%		30%		0%
WALL	70	50	30	10	50	10	50	10	50	10	0
RCR	Zonal Cavity Method - Effective Floor Cavity Reflectance = 20%										
0	119	119	119	119	116	116	111	111	106	106	100
1	113	110	107	105	108	103	104	100	100	97	92
2	107	101	97	93	99	92	96	90	93	88	84
3	100	93	88	83	92	83	89	81	87	80	77
4	94	86	80	75	85	75	83	74	80	73	70
5	89	79	73	68	78	68	76	67	75	66	64
6	83	73	67	62	73	62	71	61	69	61	59
7	78	68	61	56	67	56	66	56	65	56	54
8	74	63	56	52	62	52	61	51	60	51	49
9	70	59	52	48	58	47	57	47	56	47	45
10	66	55	48	44	54	44	53	44	53	44	42

ZONAL LUMENS AND PERCENTAGES

ZONE	LUMENS	%LUMINAIRE
0-30	597	53.5%
0-40	950	85.1%
0-60	1115	99.9%
0-90	1116	100.0%

Single Unit Data

Height to Lighted Plane	Initial Footcandles	Beam Diameter
5'	24	6 '
6'	16	8 '
7'	12	9 '
8'	9	10 '
9'	7	12 '

Multiple Unit Data - RCR 2

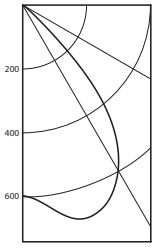
Spacing On Ctr.	Initial Footcandles	Watts/ Sq. Ft.
5'	50	0.88
6'	33	0.58
7'	23	0.41
8'	20	0.34
9'	16	0.27

38'x38'x10' Room, Workplane 2 1/2' above floor, 80/50/20% Reflectances

CERTIFIED TEST REPORT NO. F09948E[3]

20W LED, 3500K, CCL FINISH TRIM

Candlepower Distribution



ANGLE	MEAN CP	LUMENS
0	597	
5	617	61
10	661	
15	696	195
20	691	
25	659	301
30	600	
35	514	315
40	387	
45	186	147
50	38	
55	14	15
60	8	
65	4	4
70	2	
75	1	1
80	0	
85	0	0
90	0	

Trim: C420LEDDL35KCCLW

Output lumens: 1041 lm

Correlated Color Temp[1]: 3500K

Input Watts[2]: 19.8 w

Efficacy: 52.6 lm/w

CRI[4]: 76

Spacing Criterion: 1.2

CEILING	80%				70%		50%		30%		0%
WALL	70	50	30	10	50	10	50	10	50	10	0
RCR	Zonal Cavity Method - Effective Floor Cavity Reflectance = 20%										
0	119	119	119	119	116	116	111	111	106	106	100
1	113	110	107	105	108	103	104	100	100	97	92
2	106	101	97	93	99	92	96	90	93	88	84
3	100	93	87	83	91	82	89	81	86	80	77
4	94	86	79	75	84	74	82	73	80	72	70
5	88	79	72	68	78	67	76	67	74	66	64
6	83	73	66	61	72	61	71	61	69	60	58
7	78	68	61	56	67	56	66	56	64	55	53
8	74	63	56	51	62	51	61	51	60	51	49
9	69	59	52	47	58	47	57	47	56	47	45
10	66	55	48	44	54	44	53	44	52	43	42

ZONAL LUMENS AND PERCENTAGES

ZONE	LUMENS	%LUMINAIRE
0-30	557	53.5%
0-40	873	83.8%
0-60	1036	99.4%
0-90	1041	100.0%

Single Unit Data

Height to Lighted Plane	Initial Footcandles	Beam Diameter
5'	24	6 '
6'	17	8 '
7'	12	9 '
8'	9	10 '
9'	7	12 '

Multiple Unit Data - RCR 2

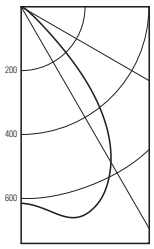
Spacing On Ctr.	Initial Footcandles	Watts/ Sq. Ft.
5'	47	0.88
6'	31	0.58
7'	22	0.41
8'	18	0.34
9'	15	0.27

38'x38'x10' Room, Workplane 2 1/2' above floor, 80/50/20% Reflectances

CERTIFIED TEST REPORT NO. F09949[3]

20W LED, 3500K, CCD FINISH TRIM

Candlepower Distribution



ANGLE	MEAN CP	LUMENS
0	615	
5	629	62
10	661	
15	684	192
20	670	
25	630	287
30	564	
35	474	290
40	350	
45	190	150
50	75	
55	36	35
60	20	
65	12	12
70	7	
75	4	5
80	2	
85	1	1
90	0	

Trim: C420LEDDL35KCCDW

Output lumens: 1036 lm

Correlated Color Temp[1]: 3500K

Input Watts[2]: 19.8 w

Efficacy: 52.3 lm/w

CRI[4]: 76

Spacing Criterion: 1.3

CEILING	80%				70%		50%		30%		0%
WALL	70	50	30	10	50	10	50	10	50	10	0
RCR	Zonal Cavity Method - Effective Floor Cavity Reflectance = 20%										
0	119	119	119	119	116	116	111	111	106	106	100
1	113	109	107	104	107	102	103	99	99	96	92
2	106	100	96	92	99	91	95	89	92	87	83
3	99	92	86	82	91	81	88	80	85	78	75
4	93	85	78	73	83	73	81	72	79	71	69
5	88	78	71	66	77	66	75	65	73	65	62
6	82	72	65	60	71	60	70	59	68	59	57
7	77	67	60	55	66	55	65	54	63	54	52
8	73	62	55	50	61	50	60	50	59	50	48
9	69	58	51	46	57	46	56	46	55	46	44
10	65	54	47	43	53	43	52	43	52	42	41

ZONAL LUMENS AND PERCENTAGES

ZONE	LUMENS	%LUMINAIRE
0-30	541	52.2%
0-40	832	80.3%
0-60	1018	98.3%
0-90	1036	100.0%

Single Unit Data

Height to Lighted Plane	Initial Footcandles	Beam Diameter
5'	25	7 '
6'	17	9 '
7'	13	10 '
8'	10	12 '
9'	8	13 '

Multiple Unit Data - RCR 2

Spacing On Ctr.	Initial Footcandles	Watts/ Sq. Ft.
5'	46	0.88
6'	30	0.58
7'	22	0.41
8'	18	0.34
9'	14	0.27

38'x38'x10' Room, Workplane 2 1/2' above floor, 80/50/20% Reflectances

CERTIFIED TEST REPORT NO. F09950[3]

[1]Correlated Color Temperature within specs as defined in ANSI NEMA ANSLG C78.377-2008: Specifications for the Chromaticity of Solid State Lighting Products.
[2]Wattage controlled to within 65%.
[3]Tested using absolute photometry as specified in LM79: IESNA Approved Method for the Electrical and Photometric Measurements of Solid-State Lighting Products.
[4]Color Rendering Index within +/- 2%.

Job Information **Type:**

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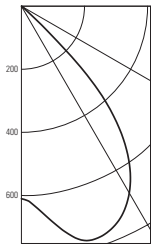
20W LED, 4000K, CL FINISH TRIM



ANGLE	MEAN CP	LUMENS
0	611	
5	648	64
10	716	
15	769	216
20	770	
25	742	339
30	684	
35	593	364
40	455	
45	209	162
50	16	
55	5	5
60	3	
65	1	1
70	1	
75	0	0
80	0	
85	0	0
90	0	

Trim:
C420LEDDL40KCLW

Output lumens:	1154 lm
Correlated Color Temp[1]:	4000K
Input Watts[2]:	19.8 w
Efficacy:	58.3 lm/w
CRI[4]:	76
Spacing Criterion:	1.3

CEILING	80%				70%		50%		30%		0%
WALL	70	50	30	10	50	10	50	10	50	10	0
RCR	Zonal Cavity Method - Effective Floor Cavity Reflectance = 20%										
0	119	119	119	119	116	116	111	111	106	106	100
1	113	110	107	105	108	103	104	100	100	97	92
2	107	101	97	93	99	92	96	90	93	88	84
3	100	93	88	83	92	83	89	81	87	80	77
4	94	86	80	75	85	75	83	74	80	73	70
5	89	79	73	68	78	68	77	67	75	66	64
6	83	73	67	62	73	62	71	61	70	61	59
7	78	68	61	57	67	56	66	56	65	56	54
8	74	63	56	52	63	52	61	51	60	51	49
9	70	59	52	48	58	48	57	47	56	47	46
10	66	55	48	44	54	44	53	44	53	44	42

ZONAL LUMENS AND PERCENTAGES

ZONE	LUMENS	%LUMINAIRE
0-30	619	53.7%
0-40	983	85.3%
0-60	1151	99.9%
0-90	1153	100.0%

Single Unit Data

Height to Lighted Plane	Initial Footcandles	Beam Diameter
5'	24	7 '
6'	17	9 '
7'	12	10 '
8'	10	12 '
9'	8	13 '

Multiple Unit Data - RCR 2

Spacing On Ctr.	Initial Footcandles	Watts/ Sq. Ft.
5'	52	0.88
6'	34	0.58
7'	24	0.41
8'	20	0.34
9'	16	0.27

38'x38'x10' Room, Workplane 2 1/2' above floor, 80/50/20% Reflectances

CERTIFIED TEST REPORT NO. 15736[3]

[1]Correlated Color Temperature within specs as defined in ANSI_NEMA_ANSLG C78.377-2008: Specifications for the Chromaticity of Solid State Lighting Products.
[2]Wattage controlled to within 65%.
[3]Tested using absolute photometry as specified in LM79: IESNA Approved Method for the Electrical and Photometric Measurements of Solid-State Lighting Products.
[4]Color Rendering Index within +/- 2%.

Job Information **Type:**

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