

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P384630

Luminaire Tested: **22ID-40-L830-CFD3**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384630
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1911-572-69)
Test Lab: INNOVATION CENTER (G2)
Issue Date: 2/25/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 22ID-40-L830-CFD3
Description: 2X2 IN DEPTH TROFFER WITH 3INCH DROP CUBE LENS

Light Source: -
Ballast/Driver: -

Summary

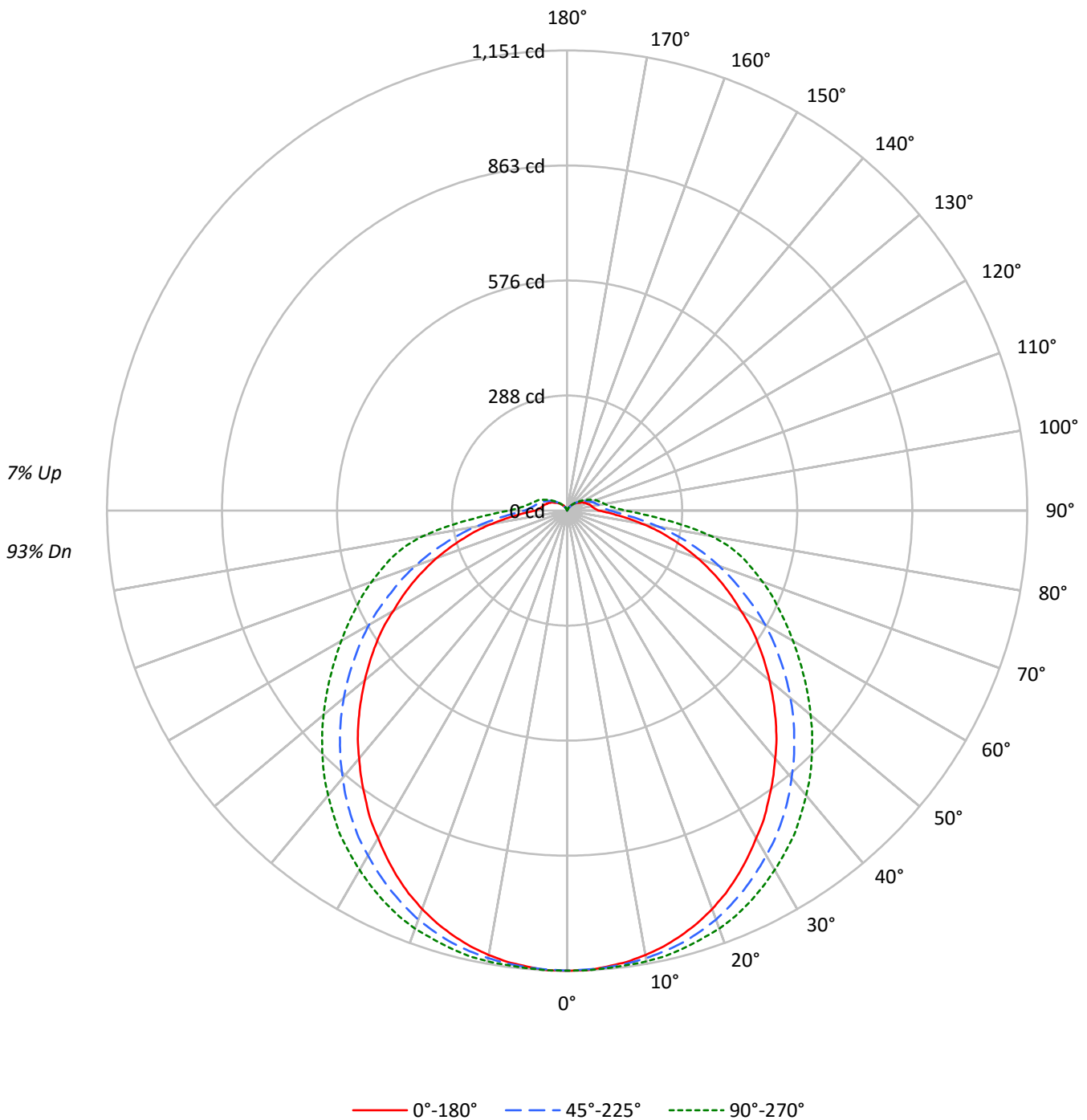
Lumens per Lamp: N/A
Luminaire Lumens: 4027.1 lumens
Efficiency: N/A
Efficacy: 123.9 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.34 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 2' x H: 0.25')
CIE Type: Direct

Input Watts (W): 32.5
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	117	117	117	117	114	114	114	114	107	107	107	101	101	101	95	95	95	93
1	105	100	95	91	102	97	93	89	91	88	84	86	83	80	81	79	77	74
2	95	86	79	73	92	84	77	71	79	73	68	74	70	66	70	67	63	60
3	86	75	66	60	83	73	65	59	69	62	57	65	59	55	62	57	53	50
4	79	66	57	50	76	64	56	49	61	54	48	58	51	46	55	49	45	42
5	72	59	50	43	70	57	49	42	54	47	41	52	45	40	49	43	39	36
6	67	53	44	37	64	52	43	37	49	41	36	47	40	35	44	39	34	32
7	62	48	39	33	60	47	38	32	44	37	31	42	36	31	40	35	30	28
8	57	44	35	29	55	43	34	29	41	33	28	39	32	27	37	31	27	25
9	54	40	32	26	52	39	31	26	37	30	25	36	29	25	34	28	24	22
10	50	37	29	23	49	36	28	23	35	28	23	33	27	22	32	26	22	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3097	3097	3097
5°	3059	3051	3070
10°	3018	3012	3061
15°	2967	2976	3053
20°	2905	2929	3047
25°	2829	2870	3031
30°	2741	2809	3009
35°	2657	2748	2991
40°	2573	2672	2956
45°	2493	2598	2928
50°	2408	2521	2898
55°	2326	2437	2878
60°	2221	2358	2888
65°	2138	2244	2934
70°	2035	2138	3047
75°	1894	1988	3218
80°	1730	1803	3314
85°	1557	1580	2987



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.1	2.7
10°-20°	315.3	7.8
20°-30°	481.8	12.0
30°-40°	586.4	14.6
40°-50°	619.8	15.4
50°-60°	585.1	14.5
60°-70°	492.2	12.2
70°-80°	354.9	8.8
80°-90°	187.2	4.6
90°-100°	100.2	2.5
100°-110°	76.1	1.9
110°-120°	55.2	1.4
120°-130°	34.7	0.9
130°-140°	18.7	0.5
140°-150°	8.2	0.2
150°-160°	2.2	0.1
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-30°	906.2	22.5
0°-40°	1492.6	37.1
0°-60°	2697.6	67.0
0°-90°	3731.8	92.7
90°-120°	231.5	5.7
90°-150°	293.0	7.3
90°-180°	295.0	7.3
0°-180°	4027.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1151	1151	1151	1151	1151	
5°	1145	1145	1147	1147	1149	109
15°	1101	1105	1119	1127	1133	310
25°	1008	1020	1046	1070	1080	464
35°	880	900	940	976	990	551
45°	737	759	803	848	866	569
55°	584	610	651	699	723	522
65°	426	450	486	546	584	421
75°	267	289	317	380	454	284
85°	122	139	155	193	235	115
90°	78	92	106	126	145	45
95°	68	78	90	102	110	54
105°	58	64	72	80	84	61
115°	46	50	56	60	64	46
125°	34	34	40	40	42	31
135°	24	22	24	24	26	18
145°	14	12	12	12	14	9
155°	6	6	2	4	6	3
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1150.8	1150.8	1150.8	1150.8	1150.8
2.5°	1150.8	1148.8	1148.8	1148.8	1150.8
5°	1144.8	1144.8	1146.8	1146.8	1148.8
7.5°	1138.8	1138.8	1142.8	1144.8	1146.8
10°	1128.7	1130.7	1136.7	1140.8	1144.8
12.5°	1116.7	1118.7	1128.7	1136.7	1140.8
15°	1100.6	1104.6	1118.7	1126.7	1132.7
17.5°	1082.5	1088.5	1104.6	1116.7	1122.7
20°	1060.4	1068.5	1088.5	1104.6	1112.6
22.5°	1036.3	1044.4	1068.5	1088.5	1098.6
25°	1008.2	1020.3	1046.4	1070.5	1080.5
27.5°	978.1	992.1	1022.3	1050.4	1060.4
30°	945.9	962.0	996.2	1026.3	1038.3
32.5°	915.8	931.9	970.0	1002.2	1014.2
35°	879.7	899.8	939.9	976.1	990.1
37.5°	845.5	865.6	907.8	945.9	960.0
40°	809.4	829.5	873.6	915.8	929.9
42.5°	775.2	795.3	839.5	883.7	899.8
45°	737.1	759.2	803.4	847.5	865.6
47.5°	698.9	721.0	767.2	813.4	831.5
50°	660.8	684.9	729.0	775.2	795.3
52.5°	622.6	646.7	690.9	739.1	759.2
55°	584.4	610.5	650.7	698.9	723.0
57.5°	546.3	572.4	612.6	662.8	686.9
60°	502.1	532.2	572.4	624.6	652.7
62.5°	463.9	490.0	530.2	584.4	618.6
65°	425.8	449.9	486.0	546.3	584.4
67.5°	385.6	411.7	445.9	502.1	554.3
70°	347.4	369.5	403.7	461.9	520.2
72.5°	307.3	329.4	361.5	421.8	486.0
75°	267.1	289.2	317.3	379.6	453.9
77.5°	231.0	249.0	275.1	335.4	415.7
80°	190.8	208.9	233.0	287.2	365.5
82.5°	154.6	170.7	190.8	239.0	301.3
85°	122.5	138.6	154.6	192.8	235.0
87.5°	98.4	110.5	126.5	154.6	182.8
90°	78.3	92.4	106.4	126.5	144.6
92.5°	72.3	84.4	96.4	112.5	124.5
95°	68.3	78.3	90.4	102.4	110.5
97.5°	64.3	74.3	84.4	96.4	102.4
100°	62.3	70.3	80.3	90.4	94.4
102.5°	60.3	66.3	76.3	84.4	90.4
105°	58.2	64.3	72.3	80.3	84.4
107.5°	54.2	60.3	68.3	76.3	80.3
110°	52.2	56.2	64.3	70.3	76.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	50.2	54.2	60.3	66.3	70.3
115°	46.2	50.2	56.2	60.3	64.3
117.5°	44.2	46.2	52.2	54.2	58.2
120°	40.2	42.2	48.2	50.2	52.2
122.5°	36.2	38.2	44.2	44.2	48.2
125°	34.1	34.1	40.2	40.2	42.2
127.5°	32.1	32.1	36.2	36.2	38.2
130°	28.1	28.1	32.1	32.1	32.1
132.5°	26.1	24.1	28.1	28.1	30.1
135°	24.1	22.1	24.1	24.1	26.1
137.5°	20.1	20.1	22.1	20.1	22.1
140°	18.1	16.1	18.1	18.1	20.1
142.5°	16.1	14.1	16.1	14.1	16.1
145°	14.1	12.1	12.1	12.1	14.1
147.5°	12.1	10.0	10.0	10.0	12.1
150°	10.0	8.0	8.0	8.0	10.0
152.5°	8.0	6.0	4.0	6.0	8.0
155°	6.0	6.0	2.0	4.0	6.0
157.5°	4.0	4.0	0.0	2.0	4.0
160°	2.0	2.0	0.0	2.0	2.0
162.5°	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0



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CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	14.15	15.69	14.63	16.15	16.64	15.28	16.82	15.76	17.28	17.77
	3H	16.05	17.44	16.53	17.92	18.45	17.61	19.01	18.10	19.48	20.02
	4H	16.81	18.13	17.31	18.62	19.17	18.71	20.04	19.22	20.53	21.07
	6H	17.44	18.67	17.96	19.17	19.74	19.75	20.99	20.27	21.49	22.05
	8H	17.68	18.86	18.21	19.38	19.95	20.17	21.36	20.71	21.88	22.45
	12H	17.88	19.01	18.42	19.53	20.13	20.52	21.66	21.06	22.18	22.77
4H	2H	14.91	16.23	15.42	16.72	17.27	15.79	17.12	16.30	17.61	18.16
	3H	17.02	18.15	17.55	18.68	19.25	18.34	19.47	18.86	20.00	20.57
	4H	17.92	18.95	18.46	19.49	20.10	19.57	20.61	20.11	21.15	21.75
	6H	18.69	19.60	19.25	20.16	20.78	20.77	21.67	21.33	22.24	22.86
	8H	18.98	19.84	19.55	20.41	21.04	21.27	22.12	21.83	22.69	23.32
	12H	19.25	20.02	19.83	20.62	21.25	21.71	22.48	22.29	23.08	23.71
8H	4H	18.39	19.24	18.95	19.81	20.44	19.83	20.69	20.40	21.25	21.88
	6H	19.30	20.03	19.90	20.64	21.27	21.15	21.88	21.75	22.49	23.12
	8H	19.70	20.35	20.31	20.97	21.61	21.76	22.41	22.37	23.03	23.68
	12H	20.07	20.65	20.68	21.26	21.97	22.33	22.91	22.94	23.52	24.23
12H	4H	18.48	19.26	19.07	19.85	20.49	19.86	20.63	20.45	21.23	21.86
	6H	19.44	20.09	20.05	20.71	21.36	21.20	21.85	21.81	22.48	23.12
	8H	19.91	20.49	20.52	21.09	21.81	21.87	22.45	22.48	23.06	23.77