

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: P384166

Luminaire Tested: **22ID-90-L830-CFD1**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384166
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1911-572-67)
Test Lab: INNOVATION CENTER (G2)
Issue Date: 2/25/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 22ID-90-L830-CFD1
Description: 2X2 IN DEPTH TROFFER WITH 1INCH DROP CUBE LENS

Light Source: -
Ballast/Driver: -

Summary

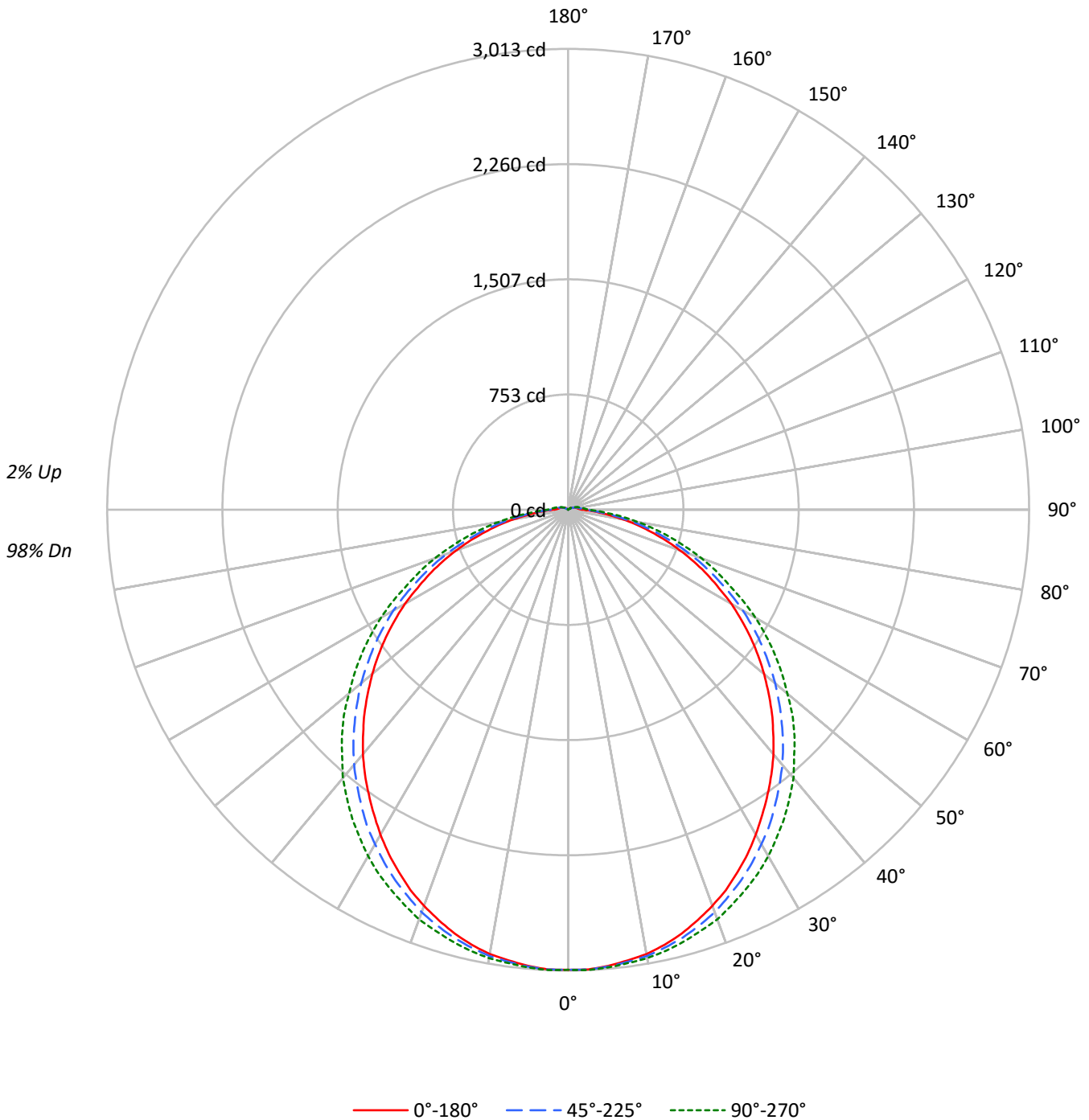
Lumens per Lamp: N/A
Luminaire Lumens: 8910.1 lumens
Efficiency: N/A
Efficacy: 105.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 2' x H: 0.08')
CIE Type: Direct

Input Watts (W): 84.1
Input Voltage (V): NR
Input Current (Ain): 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	119	119	119	119	116	116	116	116	110	110	110	105	105	105	100	100	100	98
1	108	103	98	94	105	100	96	92	96	92	89	91	88	86	87	85	83	81
2	98	89	82	76	95	87	81	75	83	78	73	80	75	71	76	73	69	67
3	89	78	70	63	86	76	69	63	73	67	61	70	64	60	67	62	58	56
4	81	69	60	53	79	68	59	53	65	58	52	62	56	51	60	55	50	48
5	75	62	53	46	73	61	52	46	58	51	45	56	49	44	54	48	44	41
6	69	56	47	40	67	55	46	40	52	45	39	51	44	39	49	43	38	36
7	64	50	42	35	62	49	41	35	48	40	35	46	39	34	45	39	34	32
8	60	46	37	32	58	45	37	31	44	36	31	42	36	31	41	35	30	28
9	56	42	34	28	54	41	34	28	40	33	28	39	32	28	38	32	27	26
10	52	39	31	26	51	38	31	26	37	30	25	36	30	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8096	8096	8096
5°	8061	8061	8085
10°	8001	8014	8075
15°	7903	7941	8052
20°	7773	7852	8041
25°	7618	7728	7986
30°	7443	7588	7936
35°	7253	7439	7858
40°	7083	7288	7773
45°	6882	7094	7641
50°	6666	6909	7459
55°	6441	6686	7301
60°	6190	6442	7098
65°	5862	6078	6760
70°	5486	5720	6538
75°	5040	5236	6178
80°	4530	4670	5776
85°	4062	4168	5480



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	284.9	3.2
10°-20°	816.8	9.2
20°-30°	1233.1	13.8
30°-40°	1477.5	16.6
40°-50°	1527.6	17.1
50°-60°	1383.3	15.5
60°-70°	1070.4	12.0
70°-80°	657.5	7.4
80°-90°	261.3	2.9
90°-100°	95.3	1.1
100°-110°	58.6	0.7
110°-120°	30.1	0.3
120°-130°	12.9	0.1
130°-140°	0.9	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2334.8	26.2
0°-40°	3812.3	42.8
0°-60°	6723.1	75.5
0°-90°	8712.4	97.8
90°-120°	184.0	2.1
90°-150°	197.7	2.2
90°-180°	198.0	2.2
0°-180°	8910.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3008	3008	3008	3008	3008	
5°	2995	2995	2999	2999	3004	284
15°	2868	2873	2896	2914	2923	809
25°	2616	2634	2674	2719	2742	1205
35°	2272	2299	2358	2421	2462	1423
45°	1884	1906	1974	2055	2092	1452
55°	1454	1486	1545	1613	1649	1300
65°	1003	1025	1075	1129	1156	992
75°	560	587	614	655	687	597
85°	194	208	226	248	262	194
90°	90	104	113	126	136	53
95°	68	77	86	95	104	54
105°	50	50	54	59	63	53
115°	32	27	27	32	36	32
125°	18	14	9	14	18	17
135°	0	0	0	0	0	1
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
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°	3008.5	3008.5	3008.5	3008.5	3008.5
2.5°	3008.5	3003.9	3008.5	3008.5	3013.0
5°	2994.9	2994.9	2999.4	2999.4	3003.9
7.5°	2972.3	2972.3	2981.4	2985.9	2990.4
10°	2949.7	2949.7	2963.3	2967.8	2976.8
12.5°	2913.6	2918.1	2931.7	2945.2	2954.3
15°	2868.4	2872.9	2895.5	2913.6	2922.6
17.5°	2814.2	2823.3	2850.4	2877.5	2886.5
20°	2755.5	2769.0	2800.7	2832.3	2850.4
22.5°	2692.3	2701.3	2737.4	2778.1	2796.2
25°	2615.5	2633.5	2674.2	2719.4	2741.9
27.5°	2538.7	2556.7	2601.9	2656.1	2683.2
30°	2452.8	2470.9	2525.1	2583.8	2615.5
32.5°	2362.5	2385.1	2448.3	2507.0	2538.7
35°	2272.2	2299.3	2358.0	2421.2	2461.9
37.5°	2181.8	2204.4	2267.6	2335.4	2376.1
40°	2086.9	2109.5	2177.3	2245.1	2290.2
42.5°	1983.1	2010.2	2077.9	2150.2	2186.3
45°	1883.7	1906.3	1974.0	2055.3	2091.5
47.5°	1775.3	1806.9	1870.1	1946.9	1987.6
50°	1671.4	1698.5	1766.2	1838.5	1870.1
52.5°	1563.0	1590.1	1653.3	1725.6	1761.7
55°	1454.5	1486.2	1544.9	1612.6	1648.8
57.5°	1341.6	1373.2	1432.0	1490.7	1531.3
60°	1233.2	1264.8	1319.0	1377.7	1413.9
62.5°	1111.2	1138.3	1197.1	1260.3	1287.4
65°	1002.8	1025.4	1075.1	1129.3	1156.4
67.5°	889.9	917.0	962.2	1011.9	1043.5
70°	777.0	808.6	844.7	889.9	926.0
72.5°	668.5	695.6	727.3	772.4	804.1
75°	560.1	587.2	614.3	655.0	686.6
77.5°	465.3	478.8	505.9	542.1	573.7
80°	361.4	379.4	402.0	438.2	460.8
82.5°	271.0	289.1	307.2	334.3	356.9
85°	194.2	207.8	225.9	248.4	262.0
87.5°	131.0	144.6	158.1	176.2	189.7
90°	90.3	103.9	112.9	126.5	135.5
92.5°	76.8	85.8	94.9	103.9	112.9
95°	67.8	76.8	85.8	94.9	103.9
97.5°	63.2	67.8	76.8	85.8	90.3
100°	58.7	63.2	67.8	76.8	81.3
102.5°	54.2	54.2	63.2	67.8	72.3
105°	49.7	49.7	54.2	58.7	63.2
107.5°	45.2	45.2	49.7	49.7	58.7
110°	40.7	36.1	40.7	40.7	49.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	36.1	31.6	36.1	36.1	40.7
115°	31.6	27.1	27.1	31.6	36.1
117.5°	27.1	22.6	22.6	22.6	31.6
120°	27.1	22.6	18.1	18.1	27.1
122.5°	22.6	18.1	13.6	18.1	22.6
125°	18.1	13.6	9.0	13.6	18.1
127.5°	13.6	13.6	4.5	9.0	13.6
130°	13.6	9.0	4.5	9.0	9.0
132.5°	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0
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

(END OF REPORT)