

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: P384120

Luminaire Tested: **22ID-30-L840-CFD1**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384120
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-30-L840-CFD1
Description: 2X2 IN DEPTH TROFFER WITH 1INCH DROP CUBE LENS

Light Source: -
Ballast/Driver: -

Summary

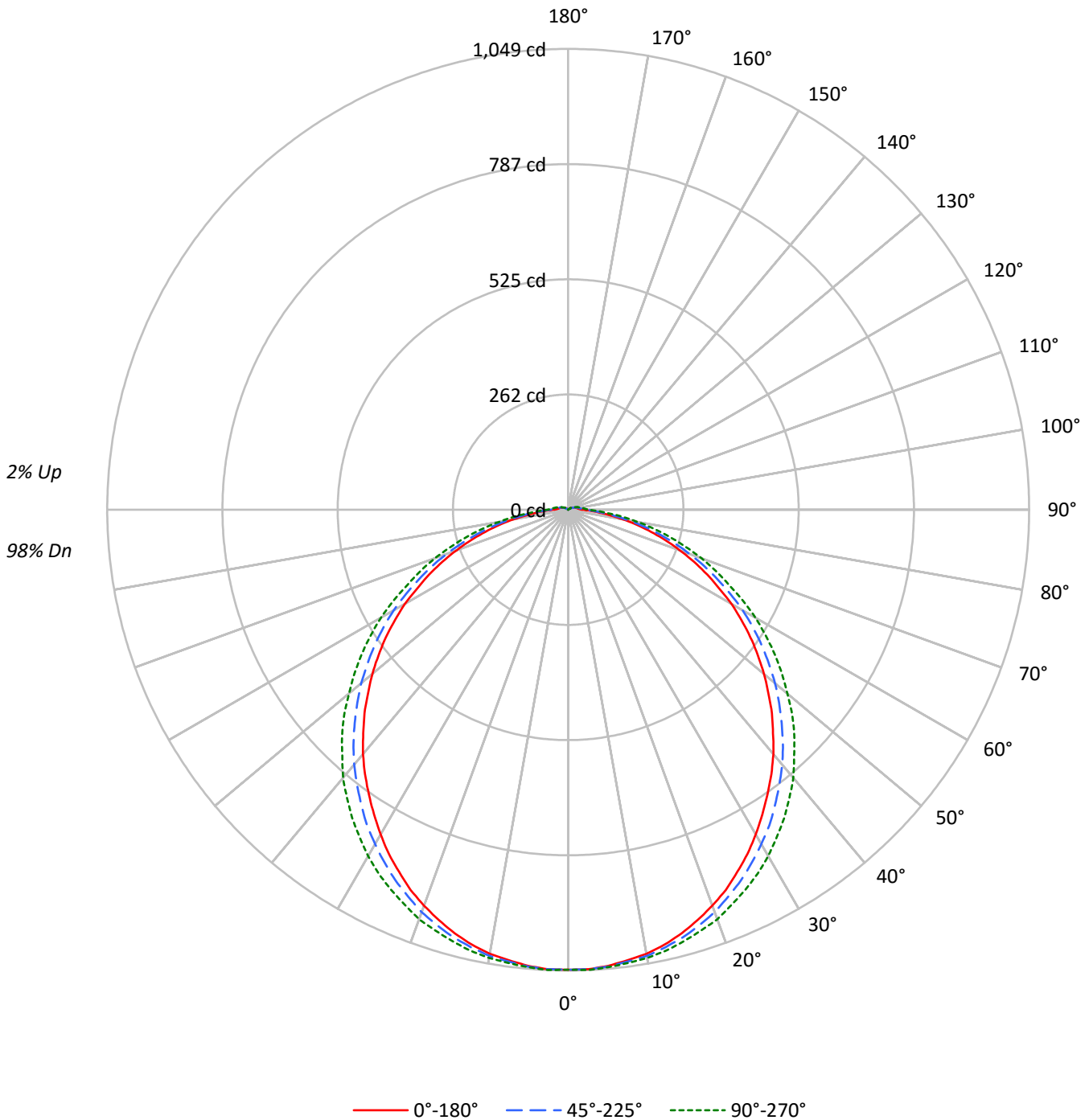
Lumens per Lamp: N/A
Luminaire Lumens: 3100.9 lumens
Efficiency: N/A
Efficacy: 127.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 2' x H: 0.08')
CIE Type: Direct

Input Watts (W): 24.3
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	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°	2817	2817	2817
5°	2805	2805	2814
10°	2785	2789	2810
15°	2750	2764	2802
20°	2705	2733	2798
25°	2651	2690	2779
30°	2590	2641	2762
35°	2524	2589	2735
40°	2465	2536	2705
45°	2395	2469	2659
50°	2320	2405	2596
55°	2242	2327	2541
60°	2155	2242	2470
65°	2040	2115	2353
70°	1909	1991	2275
75°	1754	1822	2151
80°	1577	1625	2011
85°	1414	1450	1908



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.2	3.2
10°-20°	284.3	9.2
20°-30°	429.1	13.8
30°-40°	514.2	16.6
40°-50°	531.6	17.1
50°-60°	481.4	15.5
60°-70°	372.5	12.0
70°-80°	228.8	7.4
80°-90°	90.9	2.9
90°-100°	33.2	1.1
100°-110°	20.4	0.7
110°-120°	10.5	0.3
120°-130°	4.5	0.1
130°-140°	0.3	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°	812.6	26.2
0°-40°	1326.8	42.8
0°-60°	2339.8	75.5
0°-90°	3032.1	97.8
90°-120°	64.0	2.1
90°-150°	68.8	2.2
90°-180°	69.0	2.2
0°-180°	3100.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1047	1047	1047	1047	1047	
5°	1042	1042	1044	1044	1045	99
15°	998	1000	1008	1014	1017	281
25°	910	916	931	946	954	419
35°	791	800	821	843	857	495
45°	656	663	687	715	728	505
55°	506	517	538	561	574	452
65°	349	357	374	393	402	345
75°	195	204	214	228	239	208
85°	68	72	79	86	91	67
90°	31	36	39	44	47	19
95°	24	27	30	33	36	19
105°	17	17	19	20	22	18
115°	11	9	9	11	13	11
125°	6	5	3	5	6	6
135°	0	0	0	0	0	0
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°	1047.0	1047.0	1047.0	1047.0	1047.0
2.5°	1047.0	1045.4	1047.0	1047.0	1048.6
5°	1042.3	1042.3	1043.9	1043.9	1045.4
7.5°	1034.4	1034.4	1037.6	1039.1	1040.7
10°	1026.6	1026.6	1031.3	1032.9	1036.0
12.5°	1014.0	1015.6	1020.3	1025.0	1028.1
15°	998.3	999.8	1007.7	1014.0	1017.1
17.5°	979.4	982.6	992.0	1001.4	1004.6
20°	959.0	963.7	974.7	985.7	992.0
22.5°	937.0	940.1	952.7	966.8	973.1
25°	910.2	916.5	930.7	946.4	954.3
27.5°	883.5	889.8	905.5	924.4	933.8
30°	853.6	859.9	878.8	899.2	910.2
32.5°	822.2	830.1	852.1	872.5	883.5
35°	790.8	800.2	820.6	842.6	856.8
37.5°	759.3	767.2	789.2	812.8	826.9
40°	726.3	734.2	757.7	781.3	797.0
42.5°	690.1	699.6	723.2	748.3	760.9
45°	655.6	663.4	687.0	715.3	727.9
47.5°	617.8	628.8	650.8	677.6	691.7
50°	581.7	591.1	614.7	639.8	650.8
52.5°	543.9	553.4	575.4	600.5	613.1
55°	506.2	517.2	537.7	561.2	573.8
57.5°	466.9	477.9	498.3	518.8	532.9
60°	429.2	440.2	459.0	479.5	492.1
62.5°	386.7	396.2	416.6	438.6	448.0
65°	349.0	356.9	374.2	393.0	402.5
67.5°	309.7	319.1	334.9	352.1	363.2
70°	270.4	281.4	294.0	309.7	322.3
72.5°	232.7	242.1	253.1	268.8	279.8
75°	194.9	204.4	213.8	228.0	239.0
77.5°	161.9	166.6	176.1	188.6	199.7
80°	125.8	132.1	139.9	152.5	160.4
82.5°	94.3	100.6	106.9	116.3	124.2
85°	67.6	72.3	78.6	86.5	91.2
87.5°	45.6	50.3	55.0	61.3	66.0
90°	31.4	36.2	39.3	44.0	47.2
92.5°	26.7	29.9	33.0	36.2	39.3
95°	23.6	26.7	29.9	33.0	36.2
97.5°	22.0	23.6	26.7	29.9	31.4
100°	20.4	22.0	23.6	26.7	28.3
102.5°	18.9	18.9	22.0	23.6	25.2
105°	17.3	17.3	18.9	20.4	22.0
107.5°	15.7	15.7	17.3	17.3	20.4
110°	14.1	12.6	14.1	14.1	17.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	12.6	11.0	12.6	12.6	14.1
115°	11.0	9.4	9.4	11.0	12.6
117.5°	9.4	7.9	7.9	7.9	11.0
120°	9.4	7.9	6.3	6.3	9.4
122.5°	7.9	6.3	4.7	6.3	7.9
125°	6.3	4.7	3.1	4.7	6.3
127.5°	4.7	4.7	1.6	3.1	4.7
130°	4.7	3.1	1.6	3.1	3.1
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)