

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: P384156

Luminaire Tested: **22ID-75-L840-CFD1**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384156
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-75-L840-CFD1
Description: 2X2 IN DEPTH TROFFER WITH 1INCH DROP CUBE LENS

Light Source: -
Ballast/Driver: -

Summary

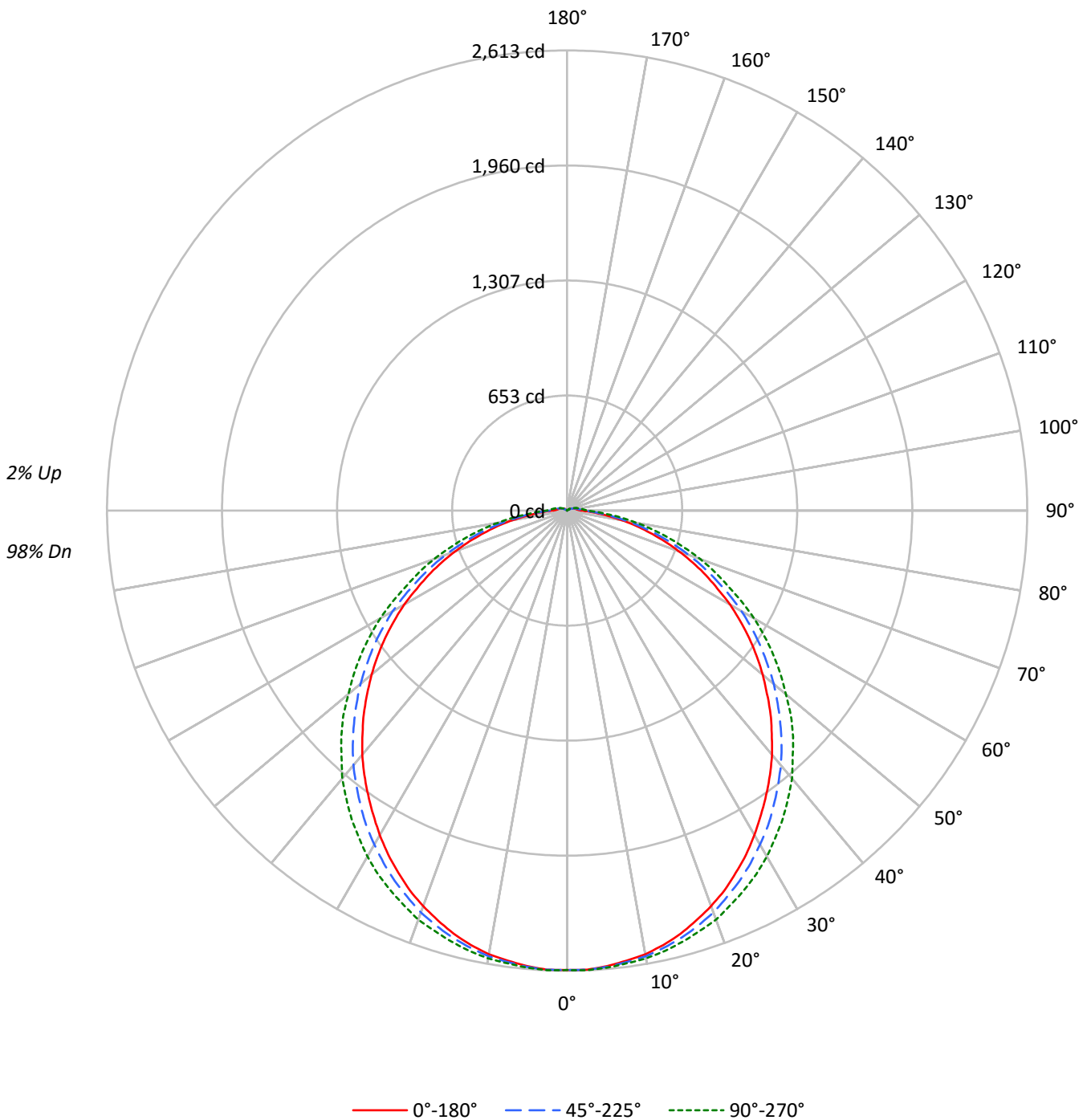
Lumens per Lamp: N/A
Luminaire Lumens: 7726.9 lumens
Efficiency: N/A
Efficacy: 115.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 2' x H: 0.08')
CIE Type: Direct

Input Watts (W): 66.8
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°	7021	7021	7021
5°	6990	6990	7011
10°	6939	6950	7003
15°	6853	6887	6983
20°	6741	6809	6973
25°	6606	6702	6926
30°	6454	6581	6882
35°	6289	6452	6815
40°	6143	6321	6741
45°	5968	6152	6626
50°	5781	5992	6468
55°	5586	5798	6331
60°	5368	5586	6155
65°	5084	5271	5862
70°	4757	4960	5670
75°	4371	4541	5358
80°	3929	4049	5009
85°	3523	3615	4752



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	247.1	3.2
10°-20°	708.3	9.2
20°-30°	1069.4	13.8
30°-40°	1281.3	16.6
40°-50°	1324.7	17.1
50°-60°	1199.6	15.5
60°-70°	928.3	12.0
70°-80°	570.2	7.4
80°-90°	226.6	2.9
90°-100°	82.7	1.1
100°-110°	50.8	0.7
110°-120°	26.1	0.3
120°-130°	11.2	0.1
130°-140°	0.8	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°	2024.7	26.2
0°-40°	3306.0	42.8
0°-60°	5830.4	75.5
0°-90°	7555.4	97.8
90°-120°	159.6	2.1
90°-150°	171.5	2.2
90°-180°	171.0	2.2
0°-180°	7726.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2609	2609	2609	2609	2609	
5°	2597	2597	2601	2601	2605	247
15°	2488	2491	2511	2527	2534	701
25°	2268	2284	2319	2358	2378	1045
35°	1970	1994	2045	2100	2135	1234
45°	1634	1653	1712	1782	1814	1259
55°	1261	1289	1340	1398	1430	1127
65°	870	889	932	979	1003	860
75°	486	509	533	568	595	518
85°	168	180	196	216	227	168
90°	78	90	98	110	118	46
95°	59	67	74	82	90	47
105°	43	43	47	51	55	46
115°	27	24	24	27	31	28
125°	16	12	8	12	16	15
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°	2609.0	2609.0	2609.0	2609.0	2609.0
2.5°	2609.0	2605.0	2609.0	2609.0	2612.9
5°	2597.2	2597.2	2601.1	2601.1	2605.0
7.5°	2577.6	2577.6	2585.5	2589.4	2593.3
10°	2558.0	2558.0	2569.8	2573.7	2581.5
12.5°	2526.7	2530.6	2542.4	2554.1	2561.9
15°	2487.5	2491.4	2511.0	2526.7	2534.5
17.5°	2440.5	2448.3	2471.8	2495.4	2503.2
20°	2389.6	2401.3	2428.8	2456.2	2471.8
22.5°	2334.7	2342.6	2373.9	2409.2	2424.8
25°	2268.1	2283.8	2319.1	2358.2	2377.8
27.5°	2201.6	2217.2	2256.4	2303.4	2326.9
30°	2127.1	2142.8	2189.8	2240.7	2268.1
32.5°	2048.8	2068.4	2123.2	2174.1	2201.6
35°	1970.4	1993.9	2044.9	2099.7	2135.0
37.5°	1892.1	1911.7	1966.5	2025.3	2060.5
40°	1809.8	1829.4	1888.2	1946.9	1986.1
42.5°	1719.7	1743.2	1802.0	1864.7	1896.0
45°	1633.5	1653.1	1711.9	1782.4	1813.7
47.5°	1539.5	1566.9	1621.8	1688.4	1723.6
50°	1449.4	1472.9	1531.7	1594.4	1621.8
52.5°	1355.4	1378.9	1433.8	1496.4	1527.8
55°	1261.4	1288.8	1339.7	1398.5	1429.8
57.5°	1163.5	1190.9	1241.8	1292.7	1328.0
60°	1069.4	1096.9	1143.9	1194.8	1226.1
62.5°	963.7	987.2	1038.1	1092.9	1116.4
65°	869.7	889.2	932.3	979.3	1002.8
67.5°	771.7	795.2	834.4	877.5	904.9
70°	673.8	701.2	732.5	771.7	803.1
72.5°	579.8	603.3	630.7	669.9	697.3
75°	485.8	509.3	532.8	568.0	595.4
77.5°	403.5	415.2	438.7	470.1	497.5
80°	313.4	329.1	348.6	380.0	399.6
82.5°	235.0	250.7	266.4	289.9	309.5
85°	168.4	180.2	195.9	215.5	227.2
87.5°	113.6	125.4	137.1	152.8	164.5
90°	78.3	90.1	97.9	109.7	117.5
92.5°	66.6	74.4	82.3	90.1	97.9
95°	58.8	66.6	74.4	82.3	90.1
97.5°	54.8	58.8	66.6	74.4	78.3
100°	50.9	54.8	58.8	66.6	70.5
102.5°	47.0	47.0	54.8	58.8	62.7
105°	43.1	43.1	47.0	50.9	54.8
107.5°	39.2	39.2	43.1	43.1	50.9
110°	35.3	31.3	35.3	35.3	43.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	31.3	27.4	31.3	31.3	35.3
115°	27.4	23.5	23.5	27.4	31.3
117.5°	23.5	19.6	19.6	19.6	27.4
120°	23.5	19.6	15.7	15.7	23.5
122.5°	19.6	15.7	11.8	15.7	19.6
125°	15.7	11.8	7.8	11.8	15.7
127.5°	11.8	11.8	3.9	7.8	11.8
130°	11.8	7.8	3.9	7.8	7.8
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)