

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: P384100

Luminaire Tested: **14ID-75-L840-CFD1**

Issue Date: 2/25/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P384100  
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: 14ID-75-L840-CFD1  
Description: 1X4 IN DEPTH TROFFER WITH 1INCH DROP CUBE LENS

Light Source: -  
Ballast/Driver: -

**Summary**

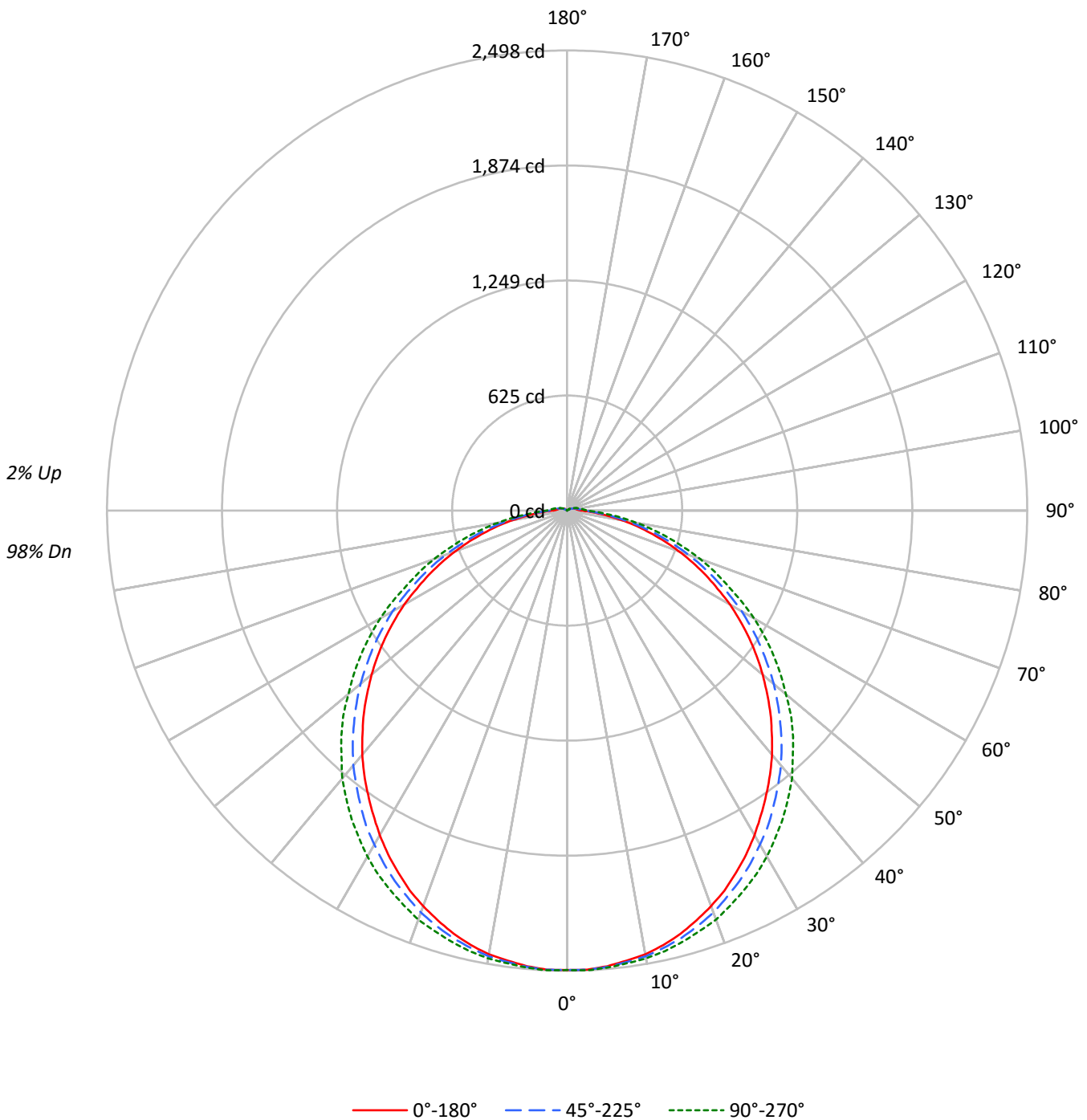
Lumens per Lamp: N/A  
Luminaire Lumens: 7387.4 lumens  
Efficiency: N/A  
Efficacy: 104.2 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.37  
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 4' x H: 0.08')  
CIE Type: Direct

Input Watts (W): 70.9  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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°	6712	6712	6712
5°	6695	6674	6679
10°	6658	6627	6646
15°	6589	6559	6603
20°	6493	6476	6568
25°	6377	6365	6498
30°	6244	6240	6429
35°	6100	6107	6336
40°	5974	5972	6234
45°	5822	5802	6092
50°	5661	5636	5905
55°	5495	5438	5732
60°	5311	5220	5514
65°	5068	4902	5180
70°	4794	4583	4916
75°	4480	4155	4515
80°	4152	3644	4020
85°	4015	3140	3435



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	236.2	3.2
10°-20°	677.2	9.2
20°-30°	1022.4	13.8
30°-40°	1225.0	16.6
40°-50°	1266.5	17.1
50°-60°	1146.9	15.5
60°-70°	887.5	12.0
70°-80°	545.2	7.4
80°-90°	216.6	2.9
90°-100°	79.0	1.1
100°-110°	48.6	0.7
110°-120°	25.0	0.3
120°-130°	10.6	0.1
130°-140°	0.7	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°	1935.8	26.2
0°-40°	3160.8	42.8
0°-60°	5574.2	75.5
0°-90°	7223.5	97.8
90°-120°	152.6	2.1
90°-150°	163.9	2.2
90°-180°	164.0	2.2
0°-180°	7387.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2494	2494	2494	2494	2494	
5°	2483	2483	2487	2487	2491	236
15°	2378	2382	2401	2416	2423	670
25°	2168	2184	2217	2255	2273	999
35°	1884	1906	1955	2007	2041	1179
45°	1562	1580	1637	1704	1734	1204
55°	1206	1232	1281	1337	1367	1078
65°	831	850	891	936	959	822
75°	464	487	509	543	569	495
85°	161	172	187	206	217	160
90°	75	86	94	105	112	44
95°	56	64	71	79	86	45
105°	41	41	45	49	52	44
115°	26	22	22	26	30	27
125°	15	11	8	11	15	14
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°	2494.3	2494.3	2494.3	2494.3	2494.3
2.5°	2494.3	2490.6	2494.3	2494.3	2498.1
5°	2483.1	2483.1	2486.8	2486.8	2490.6
7.5°	2464.4	2464.4	2471.9	2475.6	2479.3
10°	2445.6	2445.6	2456.9	2460.6	2468.1
12.5°	2415.7	2419.4	2430.7	2441.9	2449.4
15°	2378.2	2382.0	2400.7	2415.7	2423.2
17.5°	2333.3	2340.8	2363.2	2385.7	2393.2
20°	2284.6	2295.8	2322.0	2348.3	2363.2
22.5°	2232.2	2239.7	2269.6	2303.3	2318.3
25°	2168.5	2183.5	2217.2	2254.6	2273.4
27.5°	2104.8	2119.8	2157.3	2202.2	2224.7
30°	2033.7	2048.6	2093.6	2142.3	2168.5
32.5°	1958.8	1977.5	2029.9	2078.6	2104.8
35°	1883.9	1906.3	1955.0	2007.4	2041.2
37.5°	1808.9	1827.7	1880.1	1936.3	1970.0
40°	1730.3	1749.0	1805.2	1861.4	1898.8
42.5°	1644.2	1666.6	1722.8	1782.7	1812.7
45°	1561.8	1580.5	1636.7	1704.1	1734.0
47.5°	1471.9	1498.1	1550.5	1614.2	1647.9
50°	1385.7	1408.2	1464.4	1524.3	1550.5
52.5°	1295.9	1318.3	1370.8	1430.7	1460.6
55°	1206.0	1232.2	1280.9	1337.0	1367.0
57.5°	1112.3	1138.6	1187.2	1235.9	1269.6
60°	1022.4	1048.7	1093.6	1142.3	1172.3
62.5°	921.3	943.8	992.5	1044.9	1067.4
65°	831.4	850.2	891.4	936.3	958.8
67.5°	737.8	760.3	797.7	838.9	865.1
70°	644.2	670.4	700.4	737.8	767.8
72.5°	554.3	576.8	603.0	640.4	666.7
75°	464.4	486.9	509.4	543.1	569.3
77.5°	385.8	397.0	419.5	449.4	475.6
80°	299.6	314.6	333.3	363.3	382.0
82.5°	224.7	239.7	254.7	277.1	295.9
85°	161.0	172.3	187.3	206.0	217.2
87.5°	108.6	119.8	131.1	146.1	157.3
90°	74.9	86.1	93.6	104.9	112.4
92.5°	63.7	71.2	78.6	86.1	93.6
95°	56.2	63.7	71.2	78.6	86.1
97.5°	52.4	56.2	63.7	71.2	74.9
100°	48.7	52.4	56.2	63.7	67.4
102.5°	44.9	44.9	52.4	56.2	59.9
105°	41.2	41.2	44.9	48.7	52.4
107.5°	37.5	37.5	41.2	41.2	48.7
110°	33.7	30.0	33.7	33.7	41.2



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	30.0	26.2	30.0	30.0	33.7
115°	26.2	22.5	22.5	26.2	30.0
117.5°	22.5	18.7	18.7	18.7	26.2
120°	22.5	18.7	15.0	15.0	22.5
122.5°	18.7	15.0	11.2	15.0	18.7
125°	15.0	11.2	7.5	11.2	15.0
127.5°	11.2	11.2	3.7	7.5	11.2
130°	11.2	7.5	3.7	7.5	7.5
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)