

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: P384101

Luminaire Tested: **14ID-75-L850-CFD1**

Issue Date: 2/25/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P384101  
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-L850-CFD1  
Description: 1X4 IN DEPTH TROFFER WITH 1INCH DROP CUBE LENS

Light Source: -  
Ballast/Driver: -

**Summary**

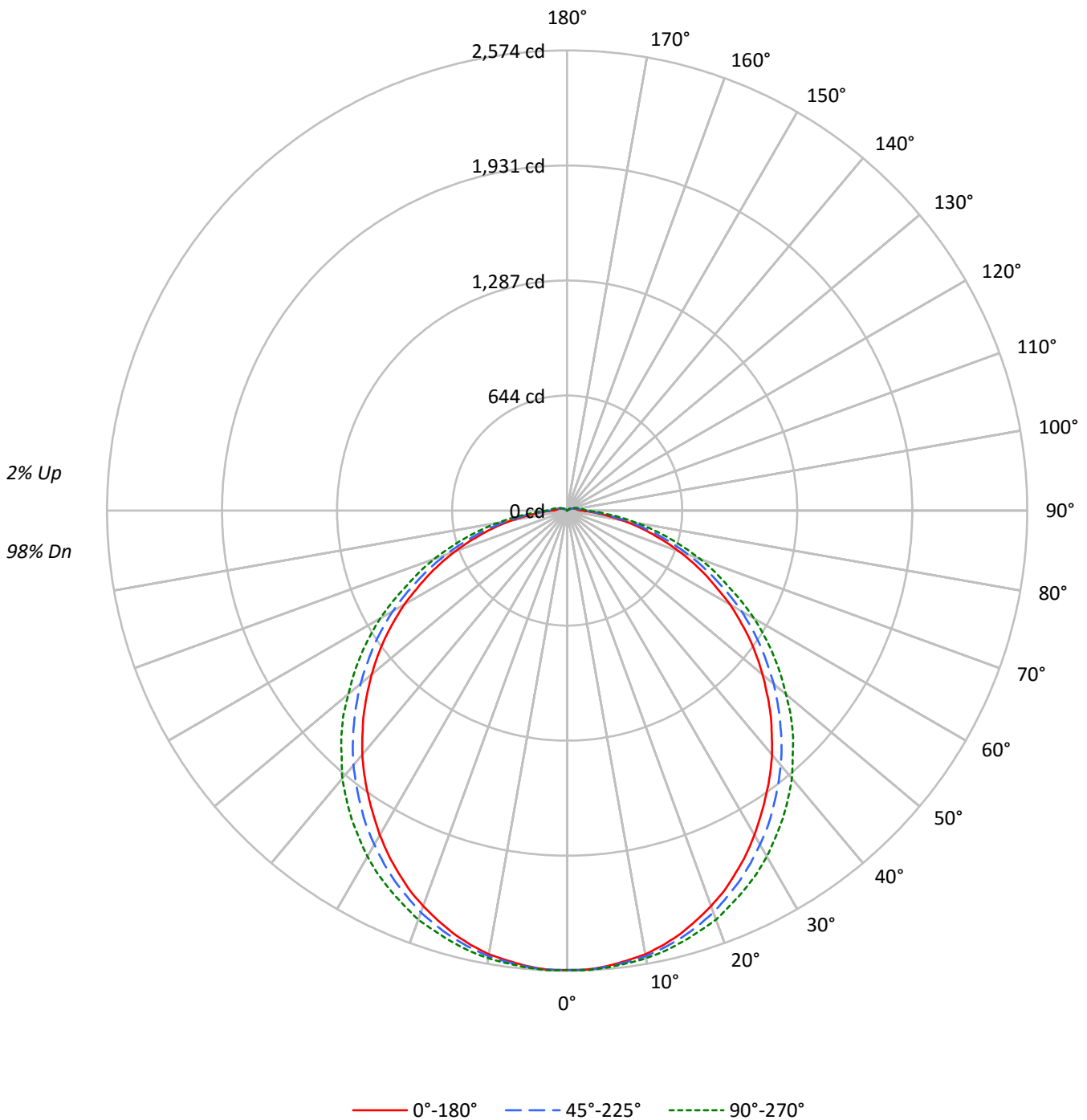
Lumens per Lamp: N/A  
Luminaire Lumens: 7611.2 lumens  
Efficiency: N/A  
Efficacy: 107.4 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.37  
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 4' x H: 0.08')  
CIE Type: Direct

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	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°	6916	6916	6916
5°	6898	6877	6881
10°	6860	6828	6848
15°	6788	6757	6803
20°	6690	6672	6767
25°	6570	6557	6694
30°	6433	6429	6624
35°	6284	6292	6528
40°	6155	6153	6424
45°	5999	5977	6276
50°	5832	5807	6084
55°	5661	5602	5905
60°	5472	5378	5681
65°	5221	5050	5336
70°	4939	4722	5064
75°	4616	4280	4652
80°	4279	3754	4143
85°	4137	3234	3540



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	243.4	3.2
10°-20°	697.7	9.2
20°-30°	1053.3	13.8
30°-40°	1262.1	16.6
40°-50°	1304.9	17.1
50°-60°	1181.7	15.5
60°-70°	914.4	12.0
70°-80°	561.7	7.4
80°-90°	223.2	2.9
90°-100°	81.4	1.1
100°-110°	50.0	0.7
110°-120°	25.7	0.3
120°-130°	11.0	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°	1994.4	26.2
0°-40°	3256.5	42.8
0°-60°	5743.0	75.5
0°-90°	7442.3	97.8
90°-120°	157.2	2.1
90°-150°	168.9	2.2
90°-180°	169.0	2.2
0°-180°	7611.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2570	2570	2570	2570	2570	
5°	2558	2558	2562	2562	2566	243
15°	2450	2454	2473	2489	2497	691
25°	2234	2250	2284	2323	2342	1029
35°	1941	1964	2014	2068	2103	1215
45°	1609	1628	1686	1756	1787	1240
55°	1242	1270	1320	1378	1408	1110
65°	857	876	918	965	988	847
75°	478	502	525	560	586	510
85°	166	178	193	212	224	165
90°	77	89	96	108	116	45
95°	58	66	73	81	89	46
105°	42	42	46	50	54	45
115°	27	23	23	27	31	27
125°	15	12	8	12	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°	2569.9	2569.9	2569.9	2569.9	2569.9
2.5°	2569.9	2566.0	2569.9	2569.9	2573.7
5°	2558.3	2558.3	2562.2	2562.2	2566.0
7.5°	2539.0	2539.0	2546.7	2550.6	2554.5
10°	2519.7	2519.7	2531.3	2535.2	2542.9
12.5°	2488.9	2492.7	2504.3	2515.9	2523.6
15°	2450.3	2454.1	2473.4	2488.9	2496.6
17.5°	2404.0	2411.7	2434.8	2458.0	2465.7
20°	2353.8	2365.4	2392.4	2419.4	2434.8
22.5°	2299.8	2307.5	2338.4	2373.1	2388.5
25°	2234.2	2249.6	2284.3	2322.9	2342.2
27.5°	2168.6	2184.0	2222.6	2268.9	2292.1
30°	2095.3	2110.7	2157.0	2207.2	2234.2
32.5°	2018.1	2037.4	2091.4	2141.6	2168.6
35°	1940.9	1964.1	2014.2	2068.3	2103.0
37.5°	1863.7	1883.0	1937.1	1994.9	2029.7
40°	1782.7	1802.0	1859.9	1917.8	1956.4
42.5°	1694.0	1717.1	1775.0	1836.7	1867.6
45°	1609.1	1628.4	1686.2	1755.7	1786.6
47.5°	1516.5	1543.5	1597.5	1663.1	1697.8
50°	1427.7	1450.9	1508.7	1570.5	1597.5
52.5°	1335.1	1358.3	1412.3	1474.0	1504.9
55°	1242.5	1269.5	1319.7	1377.6	1408.4
57.5°	1146.0	1173.0	1223.2	1273.4	1308.1
60°	1053.4	1080.4	1126.7	1176.9	1207.8
62.5°	949.2	972.4	1022.6	1076.6	1099.7
65°	856.6	875.9	918.4	964.7	987.8
67.5°	760.2	783.3	821.9	864.3	891.4
70°	663.7	690.7	721.6	760.2	791.0
72.5°	571.1	594.2	621.2	659.8	686.8
75°	478.5	501.6	524.8	559.5	586.5
77.5°	397.4	409.0	432.2	463.0	490.1
80°	308.7	324.1	343.4	374.3	393.6
82.5°	231.5	247.0	262.4	285.5	304.8
85°	165.9	177.5	192.9	212.2	223.8
87.5°	111.9	123.5	135.1	150.5	162.1
90°	77.2	88.7	96.5	108.0	115.8
92.5°	65.6	73.3	81.0	88.7	96.5
95°	57.9	65.6	73.3	81.0	88.7
97.5°	54.0	57.9	65.6	73.3	77.2
100°	50.2	54.0	57.9	65.6	69.5
102.5°	46.3	46.3	54.0	57.9	61.7
105°	42.4	42.4	46.3	50.2	54.0
107.5°	38.6	38.6	42.4	42.4	50.2
110°	34.7	30.9	34.7	34.7	42.4



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	30.9	27.0	30.9	30.9	34.7
115°	27.0	23.2	23.2	27.0	30.9
117.5°	23.2	19.3	19.3	19.3	27.0
120°	23.2	19.3	15.4	15.4	23.2
122.5°	19.3	15.4	11.6	15.4	19.3
125°	15.4	11.6	7.7	11.6	15.4
127.5°	11.6	11.6	3.9	7.7	11.6
130°	11.6	7.7	3.9	7.7	7.7
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)