

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: P385273

Luminaire Tested: **14ID-70-L850-CNV**

Issue Date: 2/25/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P385273  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1911-572-73)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 2/25/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 14ID-70-L850-CNV  
Description: 1X4 IN DEPTH TROFFER WITH CONVEX LENS

Light Source: -  
Ballast/Driver: -

**Summary**

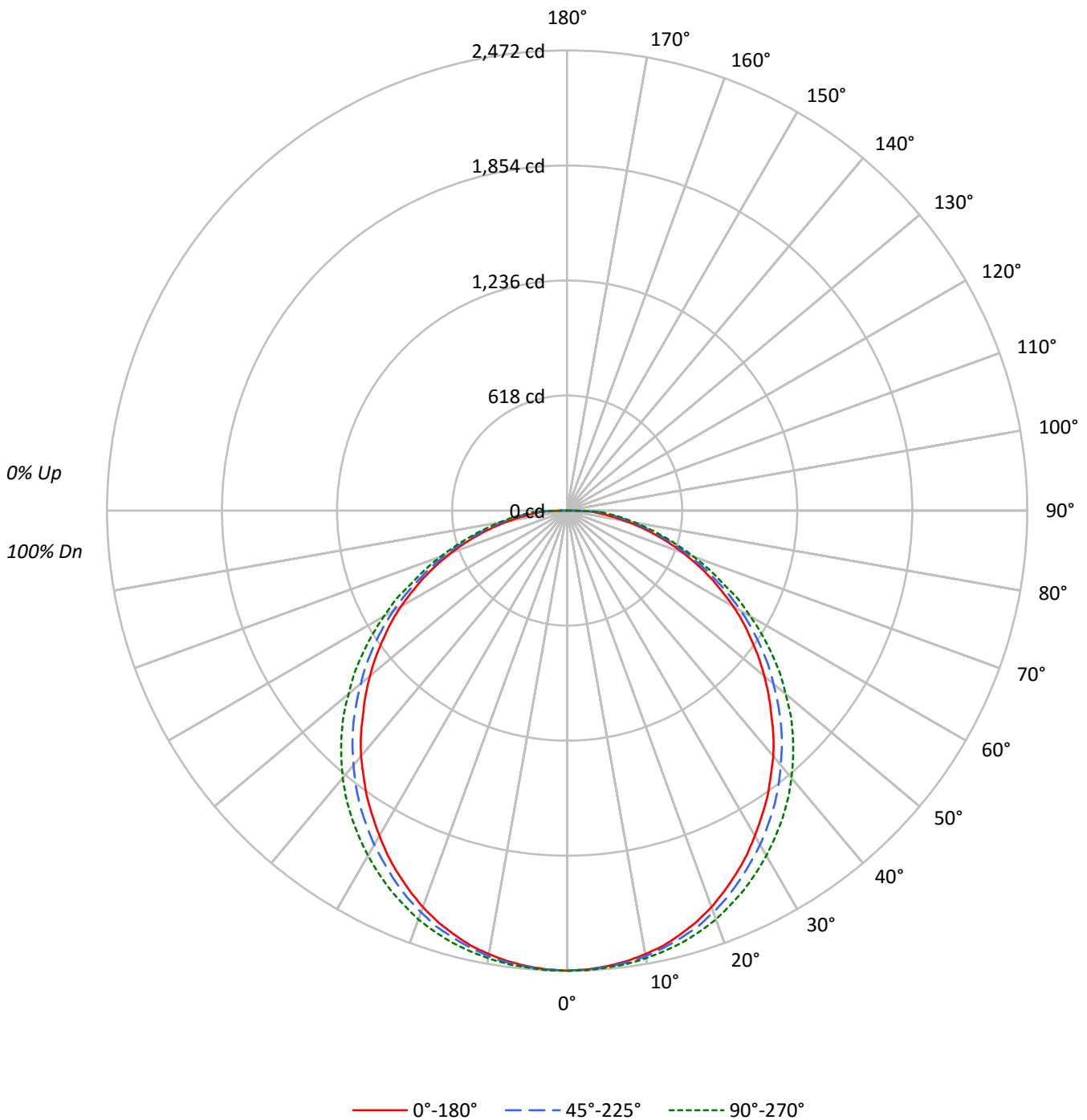
Lumens per Lamp: N/A  
Luminaire Lumens: 7168.6 lumens  
Efficiency: N/A  
Efficacy: 109.3 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.28 / 1.37  
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 4' x H: 0.17')  
CIE Type: Direct

Input Watts (W): 65.6  
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	50	30	10	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	108	103	99	94	105	101	97	93	96	93	90	93	90	87	89	87	85	82					82			
2	98	90	82	77	95	88	81	76	84	79	74	81	76	72	78	74	70	68					68			
3	89	78	70	63	87	77	69	63	74	67	62	71	65	61	68	64	60	57					57			
4	82	69	60	54	79	68	60	53	66	58	52	63	57	52	61	56	51	49					49			
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42					42			
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37					37			
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	35	33					33			
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29					29			
9	56	42	34	28	54	42	34	28	41	33	28	40	33	28	38	32	28	26					26			
10	52	39	31	26	51	39	31	26	38	30	26	37	30	25	36	30	25	24					24			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	6651	6651	6651
5°	6612	6562	6561
10°	6563	6473	6482
15°	6491	6364	6402
20°	6394	6241	6311
25°	6265	6090	6193
30°	6120	5936	6065
35°	5985	5773	5933
40°	5846	5583	5779
45°	5666	5391	5594
50°	5516	5151	5351
55°	5348	4913	5086
60°	5183	4620	4748
65°	4946	4257	4319
70°	4658	3863	3903
75°	4327	3426	3417
80°	3878	2958	2940
85°	3664	2573	2497



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	233.9	3.3
10°-20°	670.2	9.3
20°-30°	1011.4	14.1
30°-40°	1213.9	16.9
40°-50°	1256.3	17.5
50°-60°	1138.1	15.9
60°-70°	876.9	12.2
70°-80°	542.6	7.6
80°-90°	225.4	3.1
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	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°	1915.4	26.7
0°-40°	3129.3	43.7
0°-60°	5523.8	77.1
0°-90°	7168.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7168.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2472	2472	2472	2472	2472	
5°	2457	2457	2460	2460	2464	233
15°	2356	2360	2375	2390	2401	664
25°	2151	2158	2192	2229	2248	991
35°	1875	1890	1938	1991	2017	1172
45°	1551	1573	1625	1685	1715	1199
55°	1208	1226	1268	1323	1342	1081
65°	846	854	880	917	921	837
75°	481	492	511	533	533	509
85°	175	194	224	239	235	189
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2471.6	2471.6	2471.6	2471.6	2471.6
2.5°	2467.9	2467.9	2467.9	2467.9	2471.6
5°	2456.7	2456.7	2460.4	2460.4	2464.1
7.5°	2441.8	2441.8	2449.2	2449.2	2456.7
10°	2419.4	2423.1	2430.6	2434.3	2441.8
12.5°	2393.3	2393.3	2404.5	2415.7	2423.1
15°	2356.0	2359.8	2374.7	2389.6	2400.8
17.5°	2315.0	2318.7	2341.1	2356.0	2370.9
20°	2266.6	2270.3	2296.4	2318.7	2337.4
22.5°	2210.6	2218.1	2247.9	2277.7	2292.6
25°	2151.0	2158.4	2192.0	2229.3	2247.9
27.5°	2087.6	2098.8	2132.4	2173.4	2195.7
30°	2016.8	2031.7	2072.7	2117.4	2139.8
32.5°	1946.0	1960.9	2005.6	2057.8	2080.2
35°	1875.1	1890.0	1938.5	1990.7	2016.8
37.5°	1796.8	1811.8	1863.9	1919.9	1949.7
40°	1722.3	1737.2	1785.7	1849.0	1875.1
42.5°	1640.3	1655.2	1707.4	1767.0	1796.8
45°	1550.8	1573.2	1625.4	1685.0	1714.8
47.5°	1468.8	1487.4	1535.9	1599.3	1629.1
50°	1383.0	1401.7	1446.4	1509.8	1532.2
52.5°	1297.3	1315.9	1360.7	1420.3	1442.7
55°	1207.8	1226.5	1267.5	1323.4	1342.0
57.5°	1122.1	1137.0	1174.3	1226.5	1241.4
60°	1032.6	1047.5	1077.4	1125.8	1137.0
62.5°	935.7	946.9	980.4	1025.2	1040.1
65°	846.2	853.7	879.8	917.1	920.8
67.5°	753.0	760.5	786.6	812.7	823.9
70°	659.8	671.0	689.7	715.8	723.2
72.5°	570.4	581.6	600.2	622.6	626.3
75°	480.9	492.1	510.7	533.1	533.1
77.5°	395.2	406.3	428.7	447.3	447.3
80°	309.4	328.1	350.4	369.1	369.1
82.5°	238.6	253.5	283.3	298.2	298.2
85°	175.2	193.9	223.7	238.6	234.9
87.5°	126.7	145.4	171.5	182.7	178.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)