

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: P385257

Luminaire Tested: **14ID-50-L850-CNV**

Issue Date: 2/25/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P385257  
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-50-L850-CNV  
Description: 1X4 IN DEPTH TROFFER WITH CONVEX LENS

Light Source: -  
Ballast/Driver: -

**Summary**

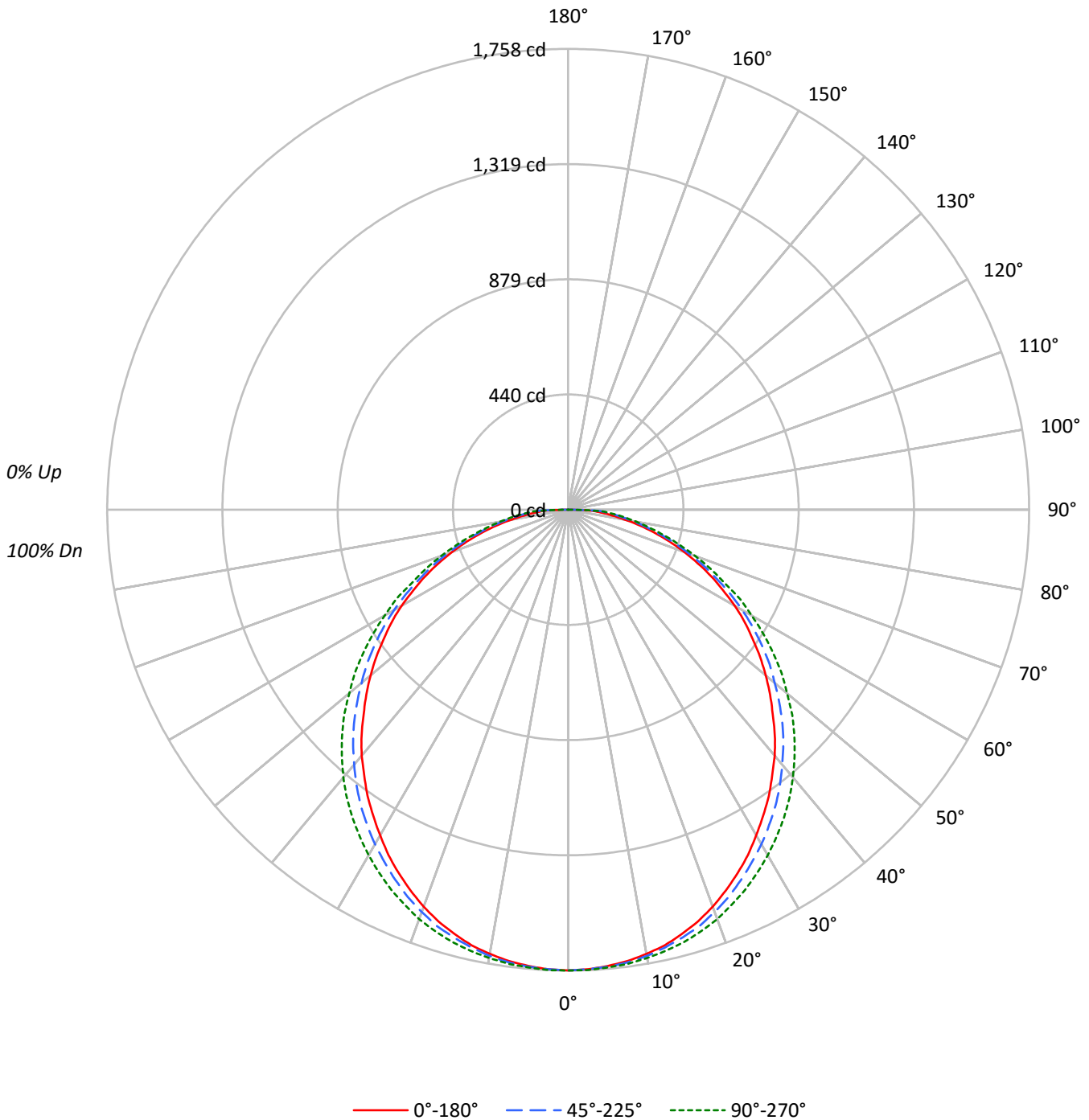
Lumens per Lamp: N/A  
Luminaire Lumens: 5097.9 lumens  
Efficiency: N/A  
Efficacy: 118.3 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.28 / 1.37  
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 4' x H: 0.17')  
CIE Type: Direct

Input Watts (W): 43.1  
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	111	111	111		106	106	106		102	102	102	100
1	108	103	99	94	105	101	97	93	96	93	90		93	90	87		89	87	85	82
2	98	90	82	77	95	88	81	76	84	79	74		81	76	72		78	74	70	68
3	89	78	70	63	87	77	69	63	74	67	62		71	65	61		68	64	60	57
4	82	69	60	54	79	68	60	53	66	58	52		63	57	52		61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45		57	50	45		55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40		51	44	39		50	44	39	37
7	64	51	42	35	63	50	41	35	48	41	35		47	40	35		45	39	35	33
8	60	46	38	32	58	45	37	32	44	37	31		43	36	31		42	36	31	29
9	56	42	34	28	54	42	34	28	41	33	28		40	33	28		38	32	28	26
10	52	39	31	26	51	39	31	26	38	30	26		37	30	25		36	30	25	24

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

	0°	45°	90°
0°	4730	4730	4730
5°	4702	4666	4666
10°	4667	4604	4609
15°	4616	4526	4553
20°	4547	4439	4488
25°	4455	4331	4404
30°	4352	4221	4313
35°	4256	4105	4219
40°	4157	3970	4110
45°	4029	3834	3978
50°	3923	3663	3806
55°	3803	3494	3617
60°	3686	3285	3377
65°	3518	3028	3072
70°	3312	2747	2775
75°	3077	2437	2430
80°	2758	2104	2091
85°	2606	1830	1775



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	166.3	3.3
10°-20°	476.6	9.3
20°-30°	719.2	14.1
30°-40°	863.3	16.9
40°-50°	893.4	17.5
50°-60°	809.4	15.9
60°-70°	623.6	12.2
70°-80°	385.9	7.6
80°-90°	160.3	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°	1362.1	26.7
0°-40°	2225.4	43.7
0°-60°	3928.2	77.1
0°-90°	5097.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5097.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1758	1758	1758	1758	1758	
5°	1747	1747	1750	1750	1752	166
15°	1676	1678	1689	1699	1707	473
25°	1530	1535	1559	1585	1599	705
35°	1334	1344	1379	1416	1434	834
45°	1103	1119	1156	1198	1220	853
55°	859	872	901	941	954	769
65°	602	607	626	652	655	595
75°	342	350	363	379	379	362
85°	125	138	159	170	167	135
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1757.7	1757.7	1757.7	1757.7	1757.7
2.5°	1755.0	1755.0	1755.0	1755.0	1757.7
5°	1747.0	1747.0	1749.7	1749.7	1752.4
7.5°	1736.4	1736.4	1741.7	1741.7	1747.0
10°	1720.5	1723.2	1728.5	1731.1	1736.4
12.5°	1702.0	1702.0	1709.9	1717.9	1723.2
15°	1675.5	1678.1	1688.7	1699.3	1707.3
17.5°	1646.3	1649.0	1664.9	1675.5	1686.1
20°	1611.8	1614.5	1633.1	1649.0	1662.2
22.5°	1572.1	1577.4	1598.6	1619.8	1630.4
25°	1529.7	1535.0	1558.8	1585.3	1598.6
27.5°	1484.6	1492.5	1516.4	1545.6	1561.5
30°	1434.2	1444.8	1474.0	1505.8	1521.7
32.5°	1383.9	1394.5	1426.3	1463.4	1479.3
35°	1333.5	1344.1	1378.6	1415.7	1434.2
37.5°	1277.8	1288.4	1325.5	1365.3	1386.5
40°	1224.8	1235.4	1269.9	1314.9	1333.5
42.5°	1166.5	1177.1	1214.2	1256.6	1277.8
45°	1102.8	1118.7	1155.9	1198.3	1219.5
47.5°	1044.5	1057.8	1092.2	1137.3	1158.5
50°	983.5	996.8	1028.6	1073.7	1089.6
52.5°	922.6	935.8	967.6	1010.1	1026.0
55°	858.9	872.2	901.4	941.1	954.4
57.5°	798.0	808.6	835.1	872.2	882.8
60°	734.3	744.9	766.2	800.6	808.6
62.5°	665.4	673.4	697.2	729.0	739.6
65°	601.8	607.1	625.7	652.2	654.8
67.5°	535.5	540.8	559.4	577.9	585.9
70°	469.2	477.2	490.4	509.0	514.3
72.5°	405.6	413.6	426.8	442.7	445.4
75°	342.0	349.9	363.2	379.1	379.1
77.5°	281.0	289.0	304.9	318.1	318.1
80°	220.0	233.3	249.2	262.5	262.5
82.5°	169.7	180.3	201.5	212.1	212.1
85°	124.6	137.9	159.1	169.7	167.0
87.5°	90.1	103.4	121.9	129.9	127.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)