

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: P385253

Luminaire Tested: **14ID-45-L850-CNV**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P385253
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-45-L850-CNV
Description: 1X4 IN DEPTH TROFFER WITH CONVEX LENS

Light Source: -
Ballast/Driver: -

Summary

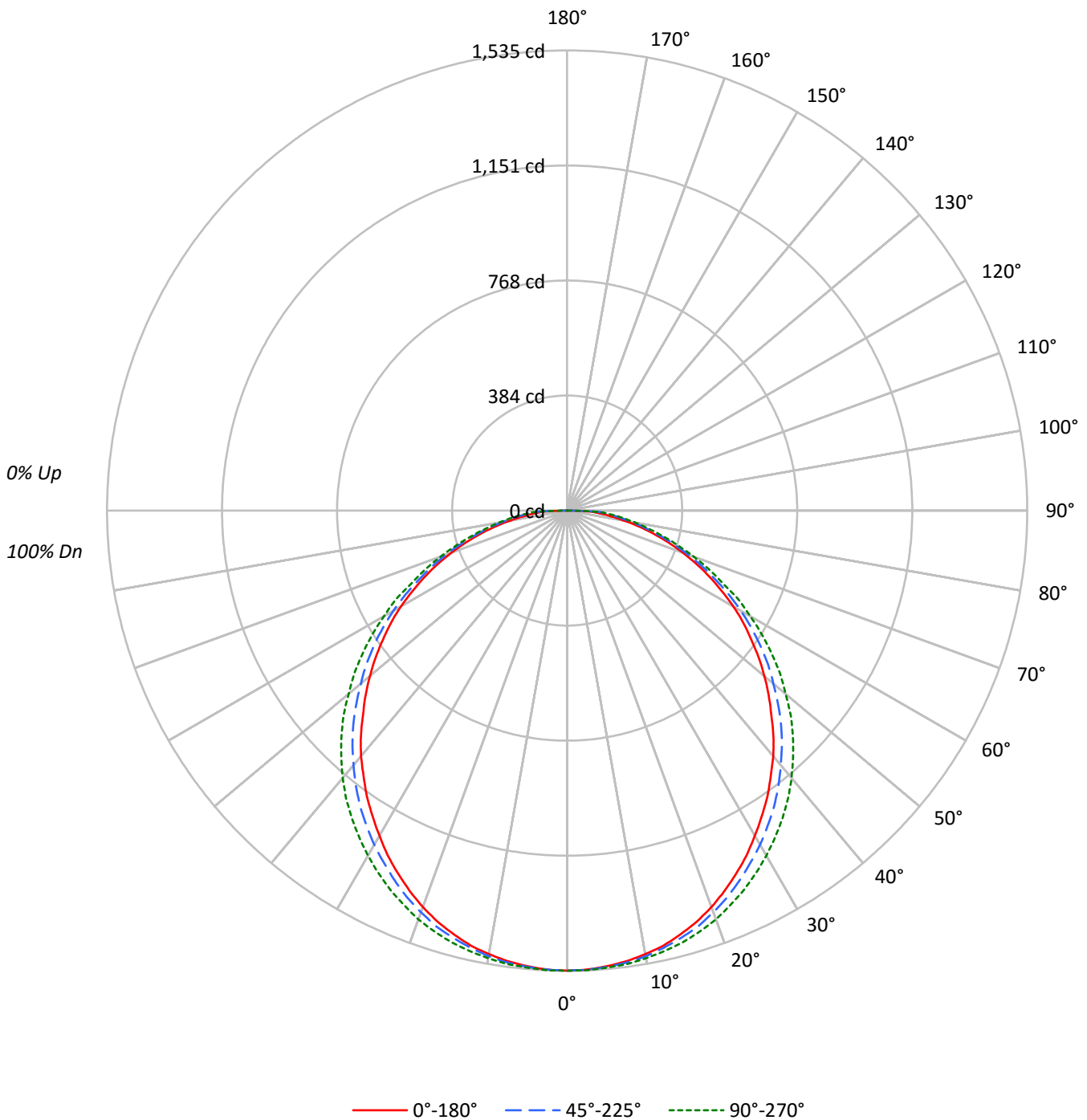
Lumens per Lamp: N/A
Luminaire Lumens: 4451.6 lumens
Efficiency: N/A
Efficacy: 115.6 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.28 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 4' x H: 0.17')
CIE Type: Direct

Input Watts (W): 38.5
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°	4130	4130	4130
5°	4106	4075	4074
10°	4075	4020	4025
15°	4031	3952	3976
20°	3970	3876	3919
25°	3890	3782	3846
30°	3800	3686	3767
35°	3717	3585	3684
40°	3630	3467	3588
45°	3518	3348	3474
50°	3426	3199	3323
55°	3321	3051	3158
60°	3219	2869	2949
65°	3072	2643	2682
70°	2892	2399	2424
75°	2687	2128	2122
80°	2408	1837	1826
85°	2276	1598	1550



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.2	3.3
10°-20°	416.2	9.3
20°-30°	628.0	14.1
30°-40°	753.8	16.9
40°-50°	780.1	17.5
50°-60°	706.8	15.9
60°-70°	544.5	12.2
70°-80°	336.9	7.6
80°-90°	139.9	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°	1189.4	26.7
0°-40°	1943.3	43.7
0°-60°	3430.2	77.1
0°-90°	4451.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4451.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1535	1535	1535	1535	1535	
5°	1526	1526	1528	1528	1530	145
15°	1463	1465	1475	1484	1491	413
25°	1336	1340	1361	1384	1396	615
35°	1164	1174	1204	1236	1252	728
45°	963	977	1009	1046	1065	745
55°	750	762	787	822	833	672
65°	526	530	546	570	572	520
75°	299	306	317	331	331	316
85°	109	120	139	148	146	118
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1534.8	1534.8	1534.8	1534.8	1534.8
2.5°	1532.5	1532.5	1532.5	1532.5	1534.8
5°	1525.6	1525.6	1527.9	1527.9	1530.2
7.5°	1516.3	1516.3	1520.9	1520.9	1525.6
10°	1502.4	1504.7	1509.4	1511.7	1516.3
12.5°	1486.2	1486.2	1493.2	1500.1	1504.7
15°	1463.1	1465.4	1474.6	1483.9	1490.8
17.5°	1437.6	1439.9	1453.8	1463.1	1472.3
20°	1407.5	1409.8	1426.0	1439.9	1451.5
22.5°	1372.8	1377.4	1395.9	1414.4	1423.7
25°	1335.7	1340.4	1361.2	1384.3	1395.9
27.5°	1296.4	1303.3	1324.2	1349.6	1363.5
30°	1252.4	1261.7	1287.1	1314.9	1328.8
32.5°	1208.4	1217.7	1245.5	1277.9	1291.8
35°	1164.4	1173.7	1203.8	1236.2	1252.4
37.5°	1115.8	1125.1	1157.5	1192.2	1210.7
40°	1069.5	1078.8	1108.9	1148.2	1164.4
42.5°	1018.6	1027.8	1060.3	1097.3	1115.8
45°	963.0	976.9	1009.3	1046.4	1064.9
47.5°	912.1	923.7	953.8	993.1	1011.6
50°	858.9	870.4	898.2	937.6	951.5
52.5°	805.6	817.2	845.0	882.0	895.9
55°	750.0	761.6	787.1	821.8	833.4
57.5°	696.8	706.1	729.2	761.6	770.9
60°	641.2	650.5	669.0	699.1	706.1
62.5°	581.1	588.0	608.8	636.6	645.9
65°	525.5	530.1	546.3	569.5	571.8
67.5°	467.6	472.3	488.5	504.7	511.6
70°	409.7	416.7	428.3	444.5	449.1
72.5°	354.2	361.1	372.7	386.6	388.9
75°	298.6	305.6	317.2	331.0	331.0
77.5°	245.4	252.3	266.2	277.8	277.8
80°	192.1	203.7	217.6	229.2	229.2
82.5°	148.2	157.4	175.9	185.2	185.2
85°	108.8	120.4	138.9	148.2	145.8
87.5°	78.7	90.3	106.5	113.4	111.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)