

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: P385281

Luminaire Tested: **14ID-80-L850-CNV**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P385281
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-80-L850-CNV
Description: 1X4 IN DEPTH TROFFER WITH CONVEX LENS

Light Source: -
Ballast/Driver: -

Summary

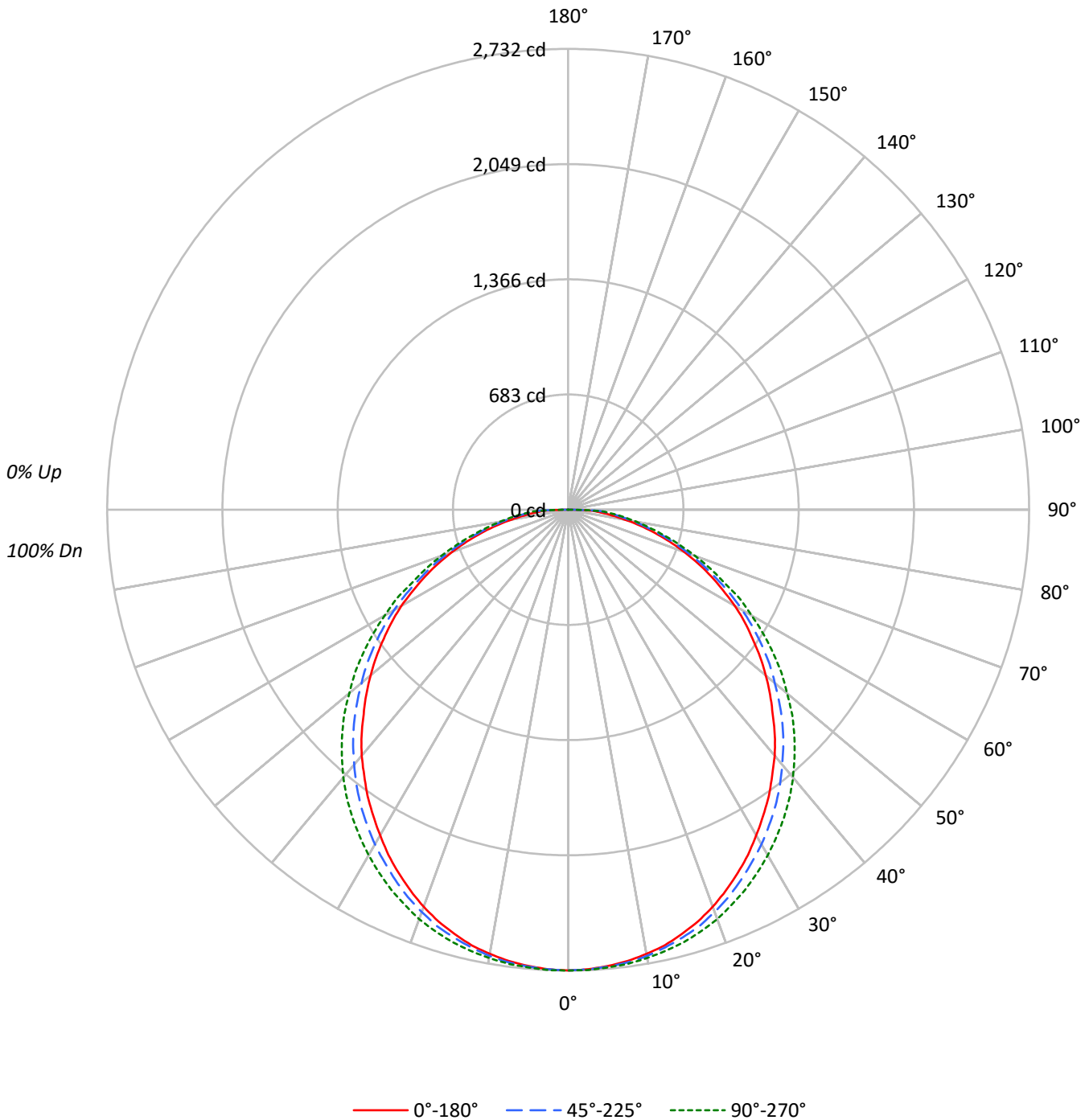
Lumens per Lamp: N/A
Luminaire Lumens: 7922.8 lumens
Efficiency: N/A
Efficacy: 102.8 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.28 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 4' x H: 0.17')
CIE Type: Direct

Input Watts (W): 77.1
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	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°	7351	7351	7351
5°	7308	7252	7251
10°	7253	7154	7164
15°	7174	7034	7076
20°	7066	6898	6975
25°	6924	6731	6845
30°	6763	6560	6703
35°	6615	6380	6557
40°	6461	6170	6387
45°	6262	5959	6182
50°	6097	5693	5914
55°	5911	5430	5621
60°	5729	5106	5248
65°	5467	4705	4774
70°	5149	4269	4314
75°	4782	3787	3777
80°	4287	3270	3250
85°	4049	2844	2759



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	258.5	3.3
10°-20°	740.7	9.3
20°-30°	1117.8	14.1
30°-40°	1341.6	16.9
40°-50°	1388.5	17.5
50°-60°	1257.9	15.9
60°-70°	969.1	12.2
70°-80°	599.7	7.6
80°-90°	249.1	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°	2116.9	26.7
0°-40°	3458.6	43.7
0°-60°	6104.9	77.1
0°-90°	7922.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7922.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2732	2732	2732	2732	2732	
5°	2715	2715	2719	2719	2723	258
15°	2604	2608	2624	2641	2653	734
25°	2377	2386	2423	2464	2484	1095
35°	2072	2089	2142	2200	2229	1296
45°	1714	1739	1796	1862	1895	1325
55°	1335	1356	1401	1463	1483	1195
65°	935	944	972	1014	1018	925
75°	532	544	564	589	589	563
85°	194	214	247	264	260	209
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2731.6	2731.6	2731.6	2731.6	2731.6
2.5°	2727.5	2727.5	2727.5	2727.5	2731.6
5°	2715.1	2715.1	2719.3	2719.3	2723.4
7.5°	2698.7	2698.7	2706.9	2706.9	2715.1
10°	2673.9	2678.1	2686.3	2690.4	2698.7
12.5°	2645.1	2645.1	2657.5	2669.8	2678.1
15°	2603.9	2608.0	2624.5	2641.0	2653.3
17.5°	2558.6	2562.7	2587.4	2603.9	2620.4
20°	2505.0	2509.1	2538.0	2562.7	2583.3
22.5°	2443.2	2451.5	2484.4	2517.4	2533.9
25°	2377.3	2385.5	2422.6	2463.8	2484.4
27.5°	2307.3	2319.6	2356.7	2402.0	2426.7
30°	2229.0	2245.4	2290.8	2340.2	2364.9
32.5°	2150.7	2167.2	2216.6	2274.3	2299.0
35°	2072.4	2088.9	2142.4	2200.1	2229.0
37.5°	1985.9	2002.4	2060.0	2121.8	2154.8
40°	1903.5	1920.0	1973.5	2043.6	2072.4
42.5°	1812.8	1829.3	1887.0	1952.9	1985.9
45°	1714.0	1738.7	1796.4	1862.3	1895.2
47.5°	1623.3	1643.9	1697.5	1767.5	1800.5
50°	1528.6	1549.2	1598.6	1668.6	1693.4
52.5°	1433.8	1454.4	1503.8	1569.8	1594.5
55°	1334.9	1355.5	1400.8	1462.6	1483.2
57.5°	1240.1	1256.6	1297.8	1355.5	1372.0
60°	1141.3	1157.7	1190.7	1244.3	1256.6
62.5°	1034.1	1046.5	1083.6	1133.0	1149.5
65°	935.3	943.5	972.3	1013.5	1017.7
67.5°	832.3	840.5	869.3	898.2	910.5
70°	729.3	741.6	762.2	791.1	799.3
72.5°	630.4	642.7	663.3	688.1	692.2
75°	531.5	543.9	564.5	589.2	589.2
77.5°	436.7	449.1	473.8	494.4	494.4
80°	342.0	362.6	387.3	407.9	407.9
82.5°	263.7	280.2	313.1	329.6	329.6
85°	193.6	214.2	247.2	263.7	259.6
87.5°	140.1	160.7	189.5	201.9	197.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)