

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: P385285

Luminaire Tested: **14ID-85-L850-CNV**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P385285
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-85-L850-CNV
Description: 1X4 IN DEPTH TROFFER WITH CONVEX LENS

Light Source: -
Ballast/Driver: -

Summary

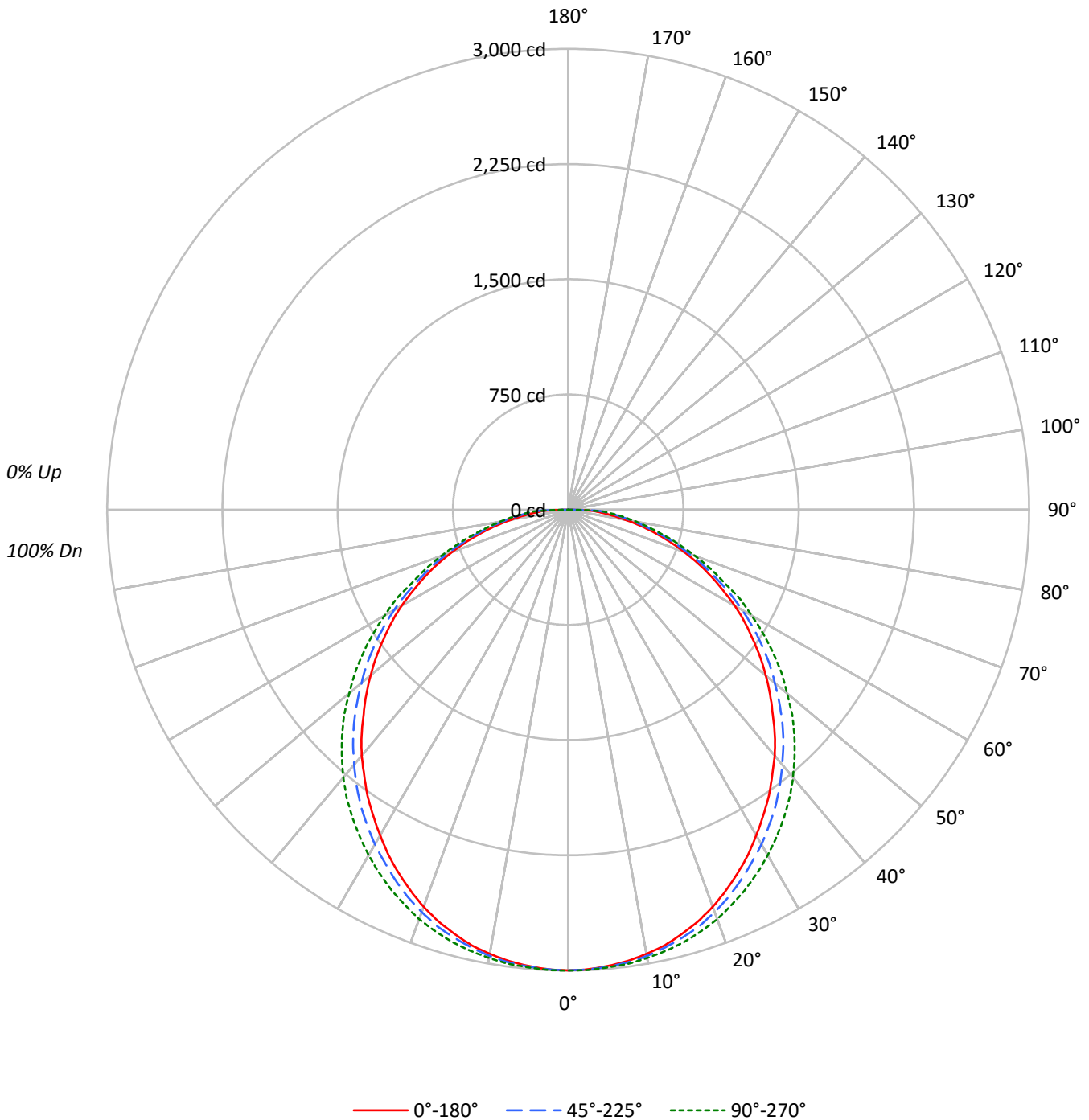
Lumens per Lamp: N/A
Luminaire Lumens: 8700.2 lumens
Efficiency: N/A
Efficacy: 104.4 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.28 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 4' x H: 0.17')
CIE Type: Direct

Input Watts (W): 83.3
Input Voltage (V): NR
Input Current (A_{in}): 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°	8072	8072	8072
5°	8025	7964	7962
10°	7965	7856	7867
15°	7878	7724	7770
20°	7760	7575	7659
25°	7604	7391	7516
30°	7427	7204	7361
35°	7264	7006	7201
40°	7095	6775	7014
45°	6876	6543	6789
50°	6694	6252	6495
55°	6491	5963	6172
60°	6291	5606	5763
65°	6003	5166	5242
70°	5653	4688	4737
75°	5251	4158	4147
80°	4707	3591	3568
85°	4446	3123	3029



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	283.8	3.3
10°-20°	813.4	9.3
20°-30°	1227.4	14.1
30°-40°	1473.3	16.9
40°-50°	1524.7	17.5
50°-60°	1381.3	15.9
60°-70°	1064.2	12.2
70°-80°	658.5	7.6
80°-90°	273.5	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°	2324.6	26.7
0°-40°	3797.9	43.7
0°-60°	6704.0	77.1
0°-90°	8700.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8700.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3000	3000	3000	3000	3000	
5°	2982	2982	2986	2986	2991	283
15°	2859	2864	2882	2900	2914	806
25°	2611	2620	2660	2706	2728	1202
35°	2276	2294	2353	2416	2448	1423
45°	1882	1909	1973	2045	2081	1455
55°	1466	1488	1538	1606	1629	1313
65°	1027	1036	1068	1113	1118	1015
75°	584	597	620	647	647	618
85°	213	235	272	290	285	230
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2999.7	2999.7	2999.7	2999.7	2999.7
2.5°	2995.1	2995.1	2995.1	2995.1	2999.7
5°	2981.6	2981.6	2986.1	2986.1	2990.6
7.5°	2963.5	2963.5	2972.5	2972.5	2981.6
10°	2936.3	2940.8	2949.9	2954.4	2963.5
12.5°	2904.6	2904.6	2918.2	2931.8	2940.8
15°	2859.4	2863.9	2882.0	2900.1	2913.7
17.5°	2809.6	2814.2	2841.3	2859.4	2877.5
20°	2750.8	2755.3	2787.0	2814.2	2836.8
22.5°	2682.9	2692.0	2728.2	2764.4	2782.5
25°	2610.6	2619.6	2660.3	2705.6	2728.2
27.5°	2533.6	2547.2	2587.9	2637.7	2664.8
30°	2447.7	2465.8	2515.5	2569.8	2597.0
32.5°	2361.7	2379.8	2434.1	2497.4	2524.6
35°	2275.8	2293.9	2352.7	2416.0	2447.7
37.5°	2180.7	2198.8	2262.2	2330.0	2366.2
40°	2090.3	2108.4	2167.2	2244.1	2275.8
42.5°	1990.7	2008.8	2072.2	2144.5	2180.7
45°	1882.1	1909.3	1972.6	2045.0	2081.2
47.5°	1782.6	1805.2	1864.0	1941.0	1977.1
50°	1678.5	1701.2	1755.5	1832.4	1859.5
52.5°	1574.5	1597.1	1651.4	1723.8	1750.9
55°	1465.9	1488.5	1538.3	1606.1	1628.8
57.5°	1361.8	1379.9	1425.2	1488.5	1506.6
60°	1253.2	1271.3	1307.5	1366.4	1379.9
62.5°	1135.6	1149.2	1189.9	1244.2	1262.3
65°	1027.0	1036.1	1067.7	1113.0	1117.5
67.5°	913.9	923.0	954.6	986.3	999.9
70°	800.8	814.4	837.0	868.7	877.7
72.5°	692.2	705.8	728.4	755.6	760.1
75°	583.6	597.2	619.8	647.0	647.0
77.5°	479.6	493.2	520.3	542.9	542.9
80°	375.5	398.1	425.3	447.9	447.9
82.5°	289.6	307.7	343.9	361.9	361.9
85°	212.6	235.3	271.5	289.6	285.0
87.5°	153.8	176.5	208.1	221.7	217.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)