

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: P385389

Luminaire Tested: **24ID-80-L850-CNV**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P385389
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: 24ID-80-L850-CNV
Description: 2X4 IN DEPTH TROFFER WITH CONVEX LENS

Light Source: -
Ballast/Driver: -

Summary

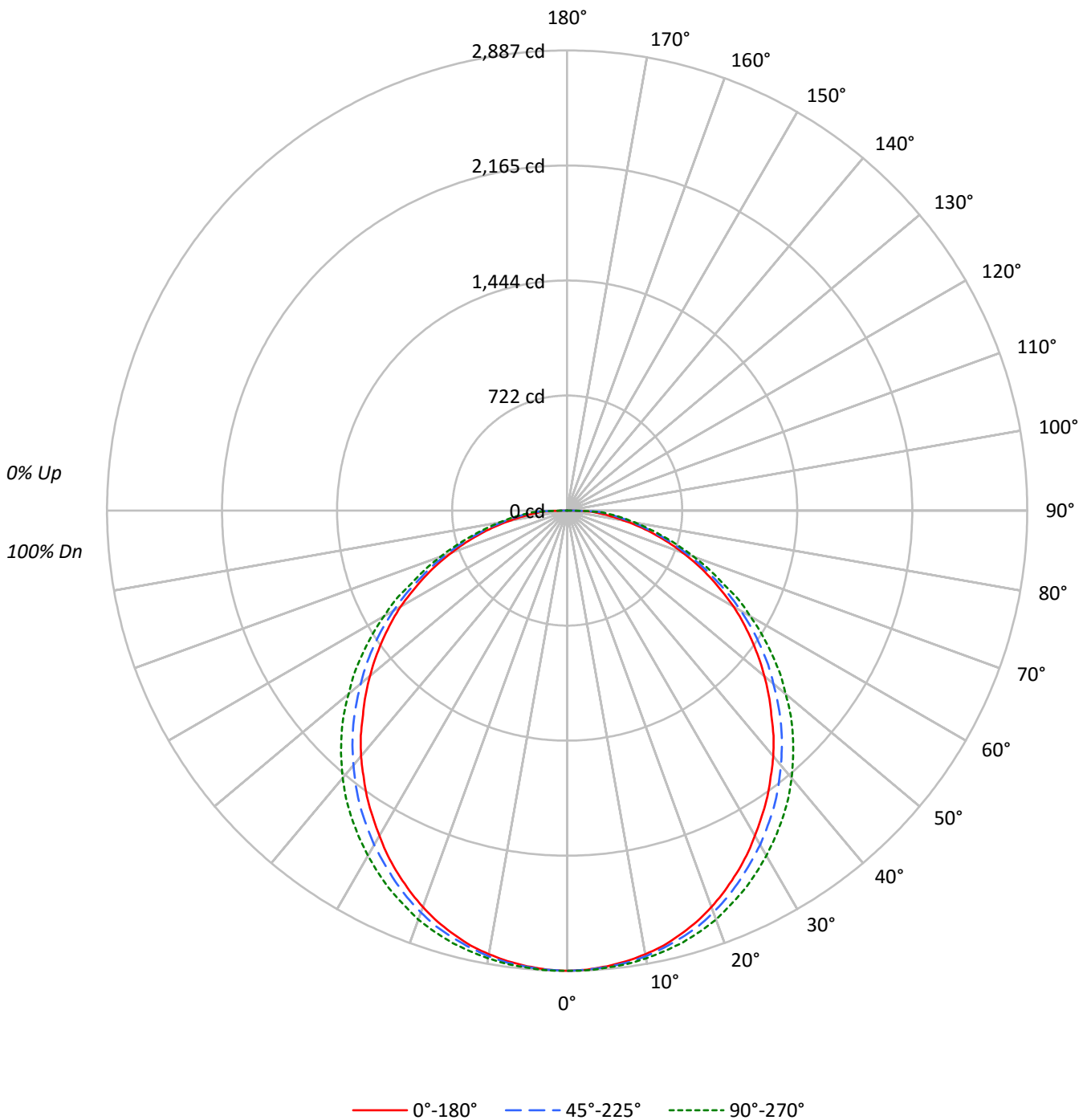
Lumens per Lamp: N/A
Luminaire Lumens: 8374.2 lumens
Efficiency: N/A
Efficacy: 108.8 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.28 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.17')
CIE Type: Direct

Input Watts (W): 77
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°	3885	3885	3885
5°	3862	3852	3860
10°	3833	3820	3841
15°	3791	3775	3821
20°	3734	3721	3795
25°	3659	3651	3753
30°	3574	3579	3705
35°	3496	3503	3656
40°	3414	3411	3596
45°	3309	3319	3518
50°	3222	3200	3408
55°	3124	3084	3286
60°	3028	2937	3123
65°	2889	2751	2905
70°	2721	2550	2704
75°	2528	2332	2469
80°	2266	2113	2268
85°	2141	2007	2170



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	273.2	3.3
10°-20°	782.9	9.3
20°-30°	1181.5	14.1
30°-40°	1418.1	16.9
40°-50°	1467.6	17.5
50°-60°	1329.5	15.9
60°-70°	1024.3	12.2
70°-80°	633.8	7.6
80°-90°	263.3	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°	2237.5	26.7
0°-40°	3655.6	43.7
0°-60°	6452.7	77.1
0°-90°	8374.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8374.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2887	2887	2887	2887	2887	
5°	2870	2870	2874	2874	2878	273
15°	2752	2757	2774	2791	2804	776
25°	2513	2521	2561	2604	2626	1157
35°	2190	2208	2264	2326	2356	1369
45°	1812	1838	1899	1968	2003	1401
55°	1411	1433	1481	1546	1568	1263
65°	988	997	1028	1071	1076	977
75°	562	575	597	623	623	595
85°	205	226	261	279	274	221
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2887.3	2887.3	2887.3	2887.3	2887.3
2.5°	2882.9	2882.9	2882.9	2882.9	2887.3
5°	2869.8	2869.8	2874.2	2874.2	2878.5
7.5°	2852.4	2852.4	2861.1	2861.1	2869.8
10°	2826.3	2830.6	2839.4	2843.7	2852.4
12.5°	2795.8	2795.8	2808.9	2821.9	2830.6
15°	2752.3	2756.6	2774.0	2791.4	2804.5
17.5°	2704.4	2708.7	2734.8	2752.3	2769.7
20°	2647.7	2652.1	2682.6	2708.7	2730.5
22.5°	2582.4	2591.1	2626.0	2660.8	2678.2
25°	2512.7	2521.4	2560.6	2604.2	2626.0
27.5°	2438.7	2451.8	2491.0	2538.9	2565.0
30°	2356.0	2373.4	2421.3	2473.5	2499.7
32.5°	2273.2	2290.6	2342.9	2403.9	2430.0
35°	2190.5	2207.9	2264.5	2325.5	2356.0
37.5°	2099.0	2116.4	2177.4	2242.7	2277.6
40°	2011.9	2029.4	2086.0	2160.0	2190.5
42.5°	1916.1	1933.5	1994.5	2064.2	2099.0
45°	1811.6	1837.7	1898.7	1968.4	2003.2
47.5°	1715.8	1737.6	1794.2	1868.2	1903.1
50°	1615.6	1637.4	1689.7	1763.7	1789.8
52.5°	1515.5	1537.3	1589.5	1659.2	1685.3
55°	1411.0	1432.7	1480.6	1546.0	1567.7
57.5°	1310.8	1328.2	1371.8	1432.7	1450.2
60°	1206.3	1223.7	1258.5	1315.2	1328.2
62.5°	1093.1	1106.1	1145.3	1197.6	1215.0
65°	988.5	997.3	1027.7	1071.3	1075.6
67.5°	879.7	888.4	918.9	949.4	962.4
70°	770.8	783.9	805.6	836.1	844.8
72.5°	666.3	679.4	701.1	727.3	731.6
75°	561.8	574.8	596.6	622.7	622.7
77.5°	461.6	474.7	500.8	522.6	522.6
80°	361.5	383.2	409.4	431.1	431.1
82.5°	278.7	296.1	331.0	348.4	348.4
85°	204.7	226.5	261.3	278.7	274.4
87.5°	148.1	169.8	200.3	213.4	209.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)