

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: P385221

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

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P385221
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1911-572-72)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 2/25/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 24ID-80-L850-CNC
Description: 2X4 IN DEPTH TROFFER WITH CONCAVE LENS

Light Source: -
Ballast/Driver: -

Summary

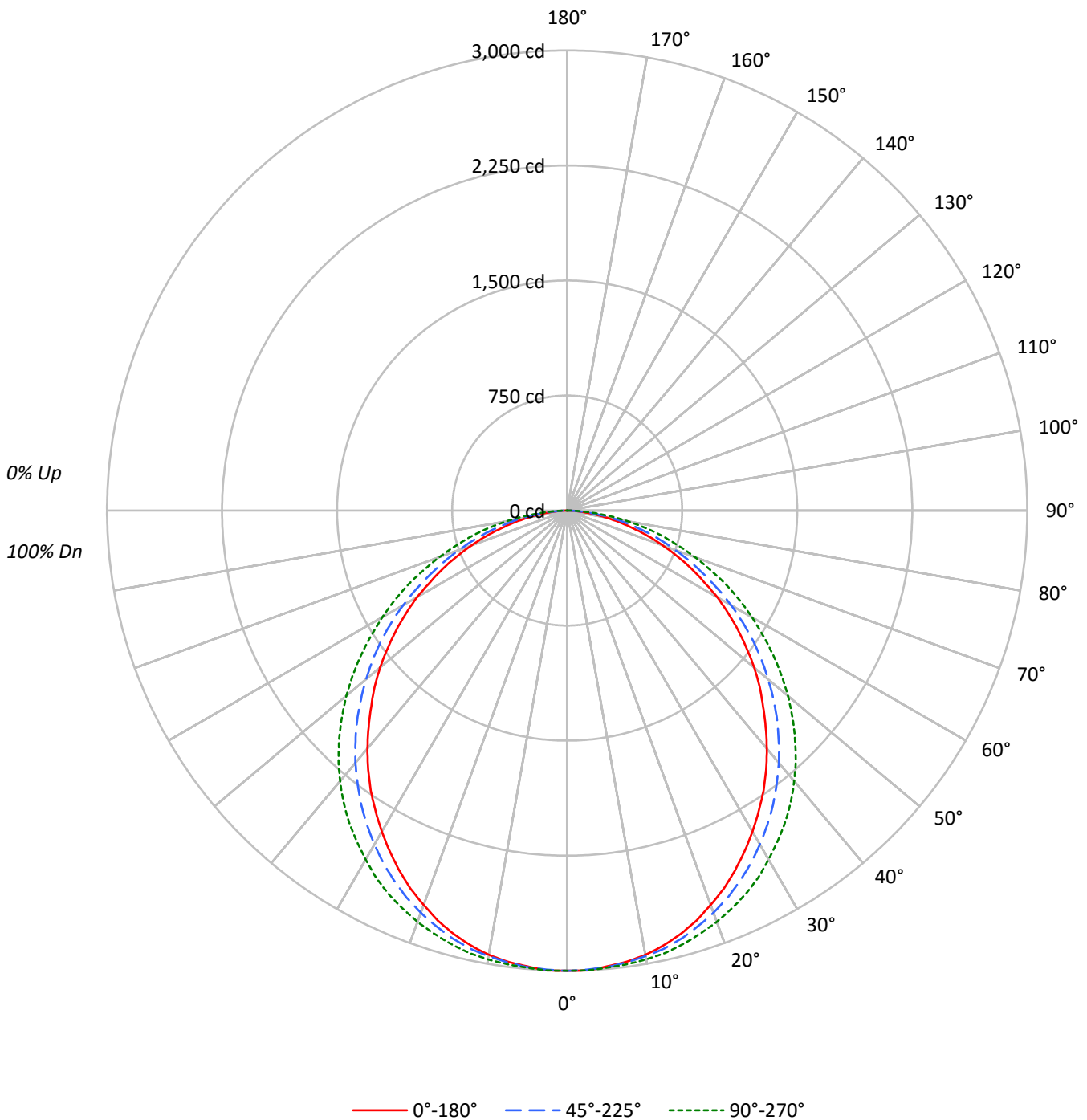
Lumens per Lamp: N/A
Luminaire Lumens: 8330.7 lumens
Efficiency: N/A
Efficacy: 108.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.3 / 1.36
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	109	104	100	96	106	102	98	94	98	94	91	94	91	89	90	88	86	84
2	99	91	84	78	96	89	83	77	85	80	75	82	78	74	79	75	72	70
3	90	80	72	65	88	78	71	65	75	69	63	72	67	62	70	65	61	59
4	83	71	62	55	80	69	61	55	67	60	54	65	58	53	62	57	53	50
5	76	63	54	48	74	62	54	47	60	52	47	58	51	46	56	50	46	44
6	70	57	48	42	68	56	48	41	54	47	41	52	46	41	51	45	40	38
7	65	52	43	37	63	51	42	37	49	42	36	48	41	36	46	40	36	34
8	61	47	39	33	59	46	38	33	45	38	32	44	37	32	43	37	32	30
9	57	43	35	29	55	43	35	29	42	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	37	31	26	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4037	4037	4037
5°	4030	4035	4041
10°	4019	4030	4059
15°	3980	4021	4074
20°	3917	3995	4085
25°	3843	3955	4093
30°	3754	3904	4080
35°	3665	3845	4072
40°	3558	3772	4045
45°	3438	3686	3998
50°	3334	3580	3932
55°	3194	3470	3845
60°	3042	3325	3743
65°	2836	3131	3639
70°	2612	2943	3488
75°	2315	2731	3342
80°	1953	2442	3093
85°	1428	1882	2465



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	284.0	3.4
10°-20°	814.8	9.8
20°-30°	1228.9	14.8
30°-40°	1467.1	17.6
40°-50°	1499.5	18.0
50°-60°	1329.6	16.0
60°-70°	991.2	11.9
70°-80°	566.2	6.8
80°-90°	149.4	1.8
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°	2327.7	27.9
0°-40°	3794.9	45.6
0°-60°	6623.9	79.5
0°-90°	8330.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8330.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3000	3000	3000	3000	3000	
5°	2984	2984	2988	2988	2992	284
15°	2858	2866	2887	2912	2925	805
25°	2589	2610	2664	2723	2757	1192
35°	2231	2261	2341	2433	2479	1394
45°	1807	1845	1937	2042	2101	1396
55°	1362	1387	1479	1584	1639	1217
65°	891	912	983	1084	1143	883
75°	445	466	525	605	643	475
85°	92	97	122	151	160	115
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3000.4	3000.4	3000.4	3000.4	3000.4
2.5°	3000.4	2996.2	2996.2	2996.2	3000.4
5°	2983.6	2983.6	2987.8	2987.8	2992.0
7.5°	2966.8	2966.8	2971.0	2975.2	2983.6
10°	2941.6	2941.6	2950.0	2962.6	2971.0
12.5°	2903.8	2908.0	2924.8	2941.6	2954.2
15°	2857.5	2866.0	2887.0	2912.2	2924.8
17.5°	2802.9	2811.3	2840.7	2874.4	2891.2
20°	2735.7	2752.5	2790.3	2832.3	2853.3
22.5°	2668.4	2685.3	2731.5	2781.9	2807.1
25°	2588.6	2609.6	2664.2	2723.1	2756.7
27.5°	2504.6	2529.8	2592.8	2660.0	2697.9
30°	2416.3	2445.7	2513.0	2588.6	2626.4
32.5°	2323.9	2353.3	2428.9	2513.0	2555.0
35°	2231.4	2260.8	2340.7	2433.1	2479.3
37.5°	2130.6	2160.0	2244.0	2344.9	2395.3
40°	2025.5	2059.1	2147.4	2248.2	2302.8
42.5°	1916.2	1954.1	2042.3	2151.6	2206.2
45°	1807.0	1844.8	1937.3	2042.3	2101.1
47.5°	1701.9	1731.3	1823.8	1933.0	1991.9
50°	1592.7	1617.9	1710.3	1819.6	1878.4
52.5°	1475.0	1508.6	1596.9	1706.1	1760.8
55°	1361.5	1386.8	1479.2	1584.3	1638.9
57.5°	1243.9	1269.1	1357.3	1462.4	1512.8
60°	1130.4	1155.6	1235.5	1340.5	1391.0
62.5°	1004.3	1029.6	1109.4	1218.7	1269.1
65°	890.9	911.9	983.3	1084.2	1143.0
67.5°	777.4	798.4	865.7	962.3	1008.5
70°	664.0	680.8	748.0	836.3	886.7
72.5°	554.7	571.5	638.7	718.6	760.6
75°	445.4	466.5	525.3	605.1	642.9
77.5°	344.6	365.6	416.0	487.5	521.1
80°	252.1	268.9	315.2	369.8	399.2
82.5°	168.1	180.7	214.3	260.5	281.6
85°	92.5	96.7	121.9	151.3	159.7
87.5°	37.8	37.8	46.2	50.4	54.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)