

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: P385388

Luminaire Tested: **24ID-80-L840-CNV**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P385388
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-L840-CNV
Description: 2X4 IN DEPTH TROFFER WITH CONVEX LENS

Light Source: -
Ballast/Driver: -

Summary

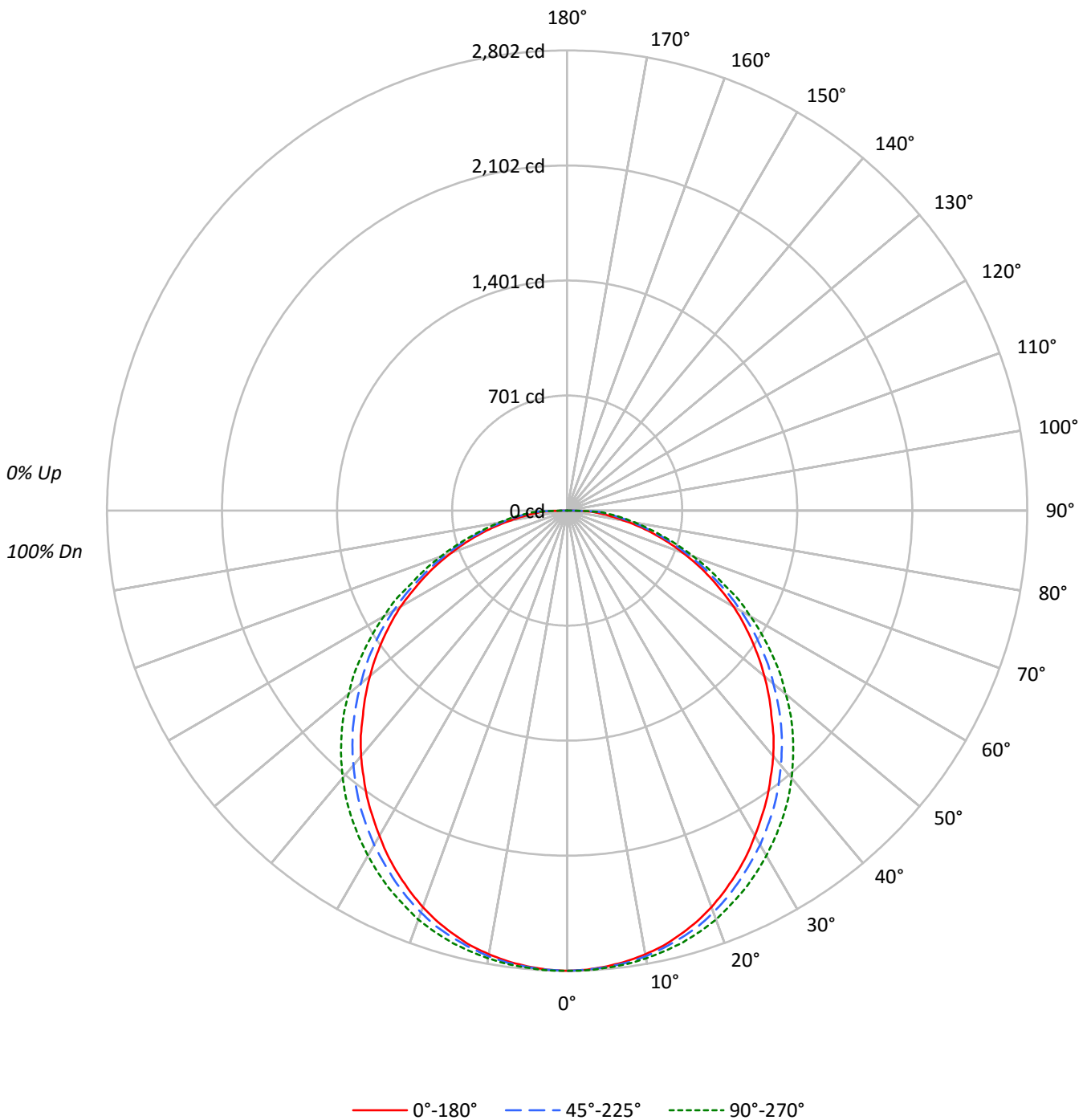
Lumens per Lamp: N/A
Luminaire Lumens: 8127.9 lumens
Efficiency: N/A
Efficacy: 105.6 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.28 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.17')
CIE Type: Direct

Input Watts (W): 77
Input Voltage (V): NR
Input Current (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°	3770	3770	3770
5°	3748	3739	3746
10°	3721	3707	3728
15°	3680	3664	3709
20°	3625	3612	3683
25°	3552	3544	3642
30°	3469	3474	3596
35°	3393	3400	3549
40°	3314	3310	3490
45°	3212	3222	3415
50°	3127	3106	3308
55°	3032	2993	3190
60°	2939	2851	3032
65°	2804	2670	2820
70°	2641	2475	2625
75°	2453	2264	2397
80°	2199	2051	2201
85°	2078	1947	2106



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	265.2	3.3
10°-20°	759.9	9.3
20°-30°	1146.7	14.1
30°-40°	1376.4	16.9
40°-50°	1424.4	17.5
50°-60°	1290.4	15.9
60°-70°	994.2	12.2
70°-80°	615.2	7.6
80°-90°	255.5	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°	2171.7	26.7
0°-40°	3548.1	43.7
0°-60°	6263.0	77.1
0°-90°	8127.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8127.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2802	2802	2802	2802	2802	
5°	2785	2785	2790	2790	2794	265
15°	2671	2676	2692	2709	2722	753
25°	2439	2447	2485	2528	2549	1123
35°	2126	2143	2198	2257	2287	1329
45°	1758	1784	1843	1910	1944	1360
55°	1370	1391	1437	1500	1522	1226
65°	960	968	998	1040	1044	949
75°	545	558	579	604	604	578
85°	199	220	254	270	266	215
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2802.3	2802.3	2802.3	2802.3	2802.3
2.5°	2798.1	2798.1	2798.1	2798.1	2802.3
5°	2785.4	2785.4	2789.7	2789.7	2793.9
7.5°	2768.5	2768.5	2777.0	2777.0	2785.4
10°	2743.2	2747.4	2755.8	2760.1	2768.5
12.5°	2713.6	2713.6	2726.3	2738.9	2747.4
15°	2671.3	2675.5	2692.4	2709.3	2722.0
17.5°	2624.8	2629.0	2654.4	2671.3	2688.2
20°	2569.9	2574.1	2603.7	2629.0	2650.2
22.5°	2506.5	2514.9	2548.7	2582.5	2599.5
25°	2438.8	2447.3	2485.3	2527.6	2548.7
27.5°	2367.0	2379.7	2417.7	2464.2	2489.6
30°	2286.7	2303.6	2350.1	2400.8	2426.2
32.5°	2206.4	2223.3	2274.0	2333.2	2358.5
35°	2126.1	2143.0	2197.9	2257.1	2286.7
37.5°	2037.3	2054.2	2113.4	2176.8	2210.6
40°	1952.8	1969.7	2024.6	2096.5	2126.1
42.5°	1859.8	1876.7	1935.9	2003.5	2037.3
45°	1758.3	1783.7	1842.9	1910.5	1944.3
47.5°	1665.3	1686.5	1741.4	1813.3	1847.1
50°	1568.1	1589.3	1640.0	1711.8	1737.2
52.5°	1470.9	1492.0	1542.8	1610.4	1635.8
55°	1369.5	1390.6	1437.1	1500.5	1521.6
57.5°	1272.3	1289.2	1331.4	1390.6	1407.5
60°	1170.8	1187.7	1221.5	1276.5	1289.2
62.5°	1060.9	1073.6	1111.6	1162.4	1179.3
65°	959.5	967.9	997.5	1039.8	1044.0
67.5°	853.8	862.3	891.8	921.4	934.1
70°	748.1	760.8	781.9	811.5	820.0
72.5°	646.7	659.4	680.5	705.9	710.1
75°	545.3	557.9	579.1	604.4	604.4
77.5°	448.0	460.7	486.1	507.2	507.2
80°	350.8	372.0	397.3	418.4	418.4
82.5°	270.5	287.4	321.2	338.1	338.1
85°	198.7	219.8	253.6	270.5	266.3
87.5°	143.7	164.8	194.4	207.1	202.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)