

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: P385387

Luminaire Tested: **24ID-80-L835-CNV**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P385387
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-L835-CNV
Description: 2X4 IN DEPTH TROFFER WITH CONVEX LENS

Light Source: -
Ballast/Driver: -

Summary

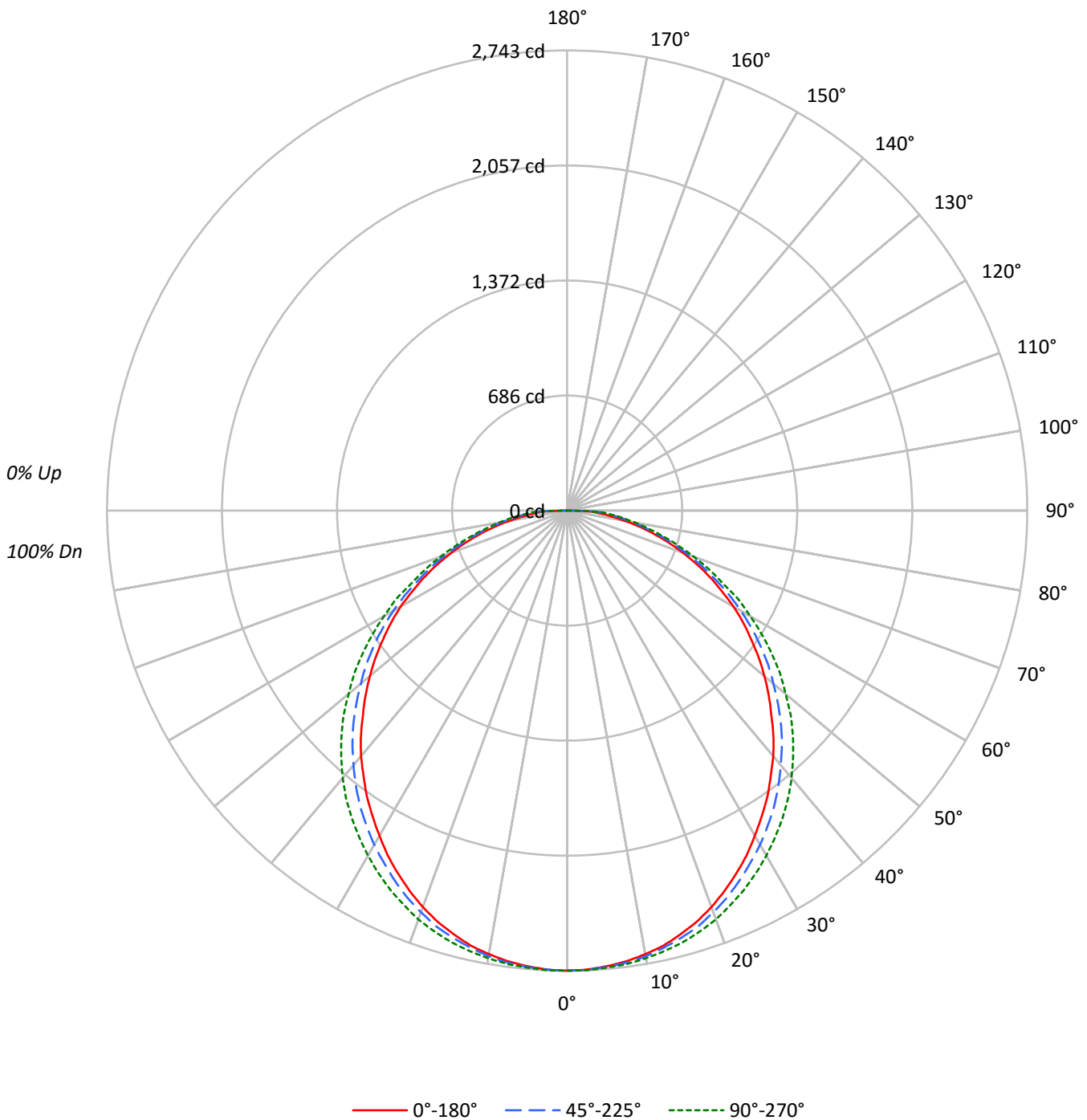
Lumens per Lamp: N/A
Luminaire Lumens: 7954.7 lumens
Efficiency: N/A
Efficacy: 103.3 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.28 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.17')
CIE Type: Direct

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°	3690	3690	3690
5°	3669	3659	3666
10°	3641	3628	3648
15°	3602	3586	3630
20°	3547	3535	3604
25°	3476	3468	3565
30°	3395	3400	3520
35°	3321	3327	3473
40°	3243	3240	3416
45°	3144	3153	3342
50°	3060	3039	3237
55°	2967	2930	3122
60°	2876	2790	2967
65°	2744	2613	2760
70°	2585	2422	2569
75°	2401	2215	2345
80°	2152	2007	2155
85°	2033	1906	2060



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	259.5	3.3
10°-20°	743.7	9.3
20°-30°	1122.3	14.1
30°-40°	1347.0	16.9
40°-50°	1394.1	17.5
50°-60°	1262.9	15.9
60°-70°	973.0	12.2
70°-80°	602.1	7.6
80°-90°	250.1	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°	2125.5	26.7
0°-40°	3472.5	43.7
0°-60°	6129.5	77.1
0°-90°	7954.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7954.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2743	2743	2743	2743	2743	
5°	2726	2726	2730	2730	2734	259
15°	2614	2618	2635	2652	2664	737
25°	2387	2395	2432	2474	2494	1099
35°	2081	2097	2151	2209	2238	1301
45°	1721	1746	1804	1870	1903	1331
55°	1340	1361	1406	1468	1489	1200
65°	939	947	976	1018	1022	928
75°	534	546	567	592	592	565
85°	194	215	248	265	261	210
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2742.6	2742.6	2742.6	2742.6	2742.6
2.5°	2738.5	2738.5	2738.5	2738.5	2742.6
5°	2726.1	2726.1	2730.2	2730.2	2734.3
7.5°	2709.5	2709.5	2717.8	2717.8	2726.1
10°	2684.7	2688.8	2697.1	2701.3	2709.5
12.5°	2655.7	2655.7	2668.2	2680.6	2688.8
15°	2614.4	2618.5	2635.1	2651.6	2664.0
17.5°	2568.9	2573.0	2597.8	2614.4	2630.9
20°	2515.1	2519.2	2548.2	2573.0	2593.7
22.5°	2453.1	2461.3	2494.4	2527.5	2544.1
25°	2386.9	2395.1	2432.4	2473.7	2494.4
27.5°	2316.5	2329.0	2366.2	2411.7	2436.5
30°	2237.9	2254.5	2300.0	2349.6	2374.5
32.5°	2159.3	2175.9	2225.5	2283.4	2308.3
35°	2080.8	2097.3	2151.1	2209.0	2237.9
37.5°	1993.9	2010.4	2068.3	2130.4	2163.5
40°	1911.1	1927.7	1981.5	2051.8	2080.8
42.5°	1820.1	1836.7	1894.6	1960.8	1993.9
45°	1720.9	1745.7	1803.6	1869.8	1902.9
47.5°	1629.9	1650.5	1704.3	1774.6	1807.7
50°	1534.7	1555.4	1605.0	1675.4	1700.2
52.5°	1439.6	1460.2	1509.9	1576.1	1600.9
55°	1340.3	1361.0	1406.5	1468.5	1489.2
57.5°	1245.1	1261.7	1303.1	1361.0	1377.5
60°	1145.9	1162.4	1195.5	1249.3	1261.7
62.5°	1038.3	1050.7	1087.9	1137.6	1154.1
65°	939.0	947.3	976.3	1017.6	1021.8
67.5°	835.6	843.9	872.8	901.8	914.2
70°	732.2	744.6	765.3	794.2	802.5
72.5°	632.9	645.3	666.0	690.8	695.0
75°	533.6	546.0	566.7	591.5	591.5
77.5°	438.5	450.9	475.7	496.4	496.4
80°	343.3	364.0	388.8	409.5	409.5
82.5°	264.7	281.3	314.4	330.9	330.9
85°	194.4	215.1	248.2	264.7	260.6
87.5°	140.6	161.3	190.3	202.7	198.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)