

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: P385227

Luminaire Tested: **24ID-90-L835-CNC**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P385227
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-90-L835-CNC
Description: 2X4 IN DEPTH TROFFER WITH CONCAVE LENS

Light Source: -
Ballast/Driver: -

Summary

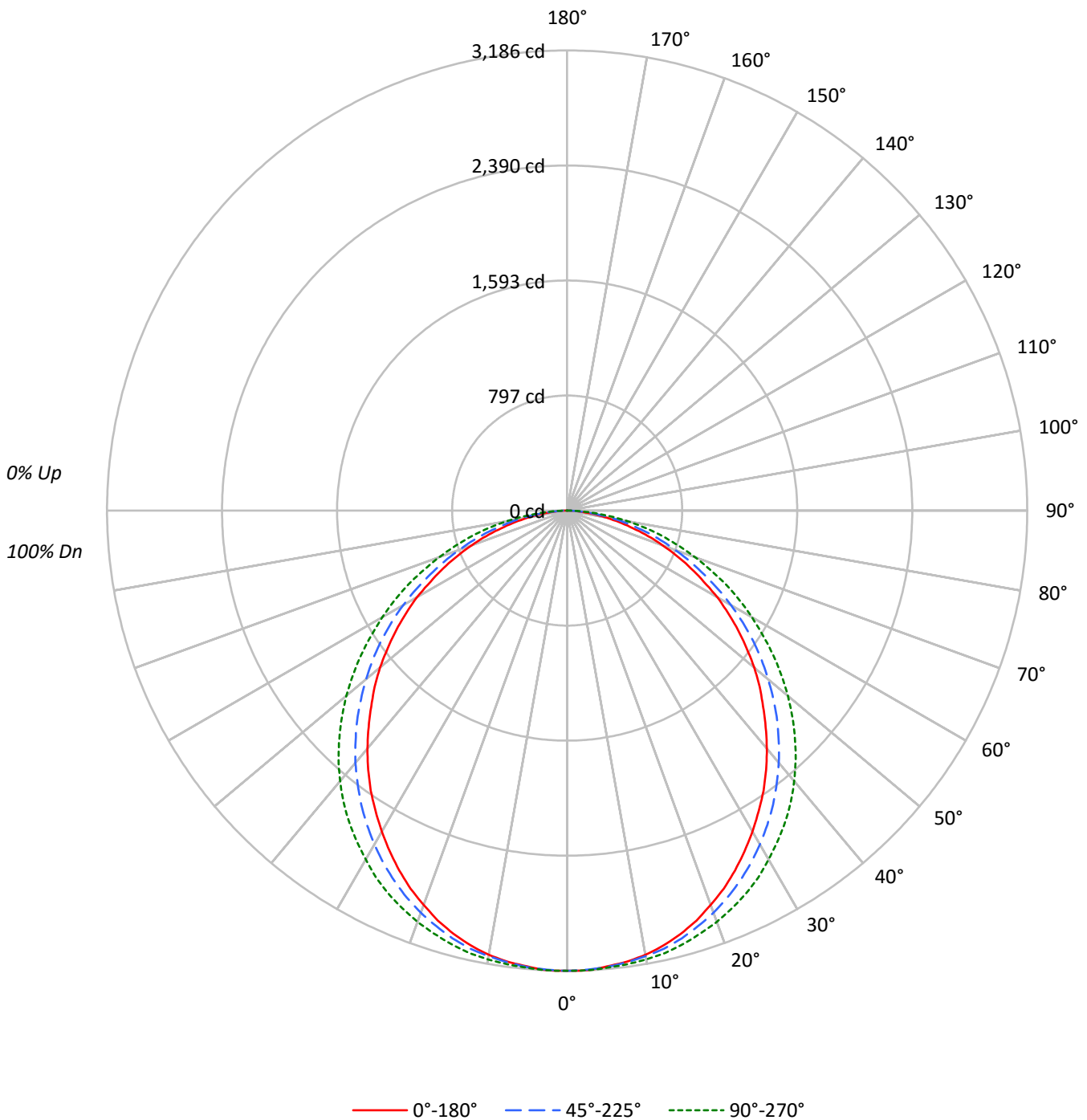
Lumens per Lamp: N/A
Luminaire Lumens: 8846.8 lumens
Efficiency: N/A
Efficacy: 101.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.3 / 1.36
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 87.3
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	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°	4287	4287	4287
5°	4279	4285	4291
10°	4268	4280	4311
15°	4227	4271	4327
20°	4160	4243	4339
25°	4081	4200	4346
30°	3987	4146	4333
35°	3892	4083	4325
40°	3778	4005	4295
45°	3651	3915	4246
50°	3540	3802	4176
55°	3392	3685	4083
60°	3230	3531	3975
65°	3012	3325	3864
70°	2774	3125	3704
75°	2459	2900	3550
80°	2075	2593	3285
85°	1516	1998	2618



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	301.6	3.4
10°-20°	865.3	9.8
20°-30°	1305.0	14.8
30°-40°	1558.0	17.6
40°-50°	1592.4	18.0
50°-60°	1412.0	16.0
60°-70°	1052.6	11.9
70°-80°	601.3	6.8
80°-90°	158.6	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°	2472.0	27.9
0°-40°	4030.0	45.6
0°-60°	7034.3	79.5
0°-90°	8846.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8846.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3186	3186	3186	3186	3186	
5°	3168	3168	3173	3173	3177	301
15°	3035	3044	3066	3093	3106	855
25°	2749	2771	2829	2892	2928	1266
35°	2370	2401	2486	2584	2633	1480
45°	1919	1959	2057	2169	2231	1483
55°	1446	1473	1571	1682	1740	1292
65°	946	968	1044	1151	1214	938
75°	473	495	558	643	683	505
85°	98	103	129	161	170	123
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3186.3	3186.3	3186.3	3186.3	3186.3
2.5°	3186.3	3181.8	3181.8	3181.8	3186.3
5°	3168.5	3168.5	3172.9	3172.9	3177.4
7.5°	3150.6	3150.6	3155.1	3159.5	3168.5
10°	3123.8	3123.8	3132.8	3146.1	3155.1
12.5°	3083.7	3088.1	3106.0	3123.8	3137.2
15°	3034.6	3043.5	3065.8	3092.6	3106.0
17.5°	2976.6	2985.5	3016.7	3052.4	3070.3
20°	2905.2	2923.0	2963.2	3007.8	3030.1
22.5°	2833.8	2851.6	2900.7	2954.3	2981.0
25°	2749.0	2771.3	2829.3	2891.8	2927.5
27.5°	2659.7	2686.5	2753.4	2824.8	2865.0
30°	2566.0	2597.2	2668.6	2749.0	2789.1
32.5°	2467.8	2499.1	2579.4	2668.6	2713.3
35°	2369.6	2400.9	2485.7	2583.9	2632.9
37.5°	2262.5	2293.8	2383.0	2490.1	2543.7
40°	2151.0	2186.7	2280.4	2387.5	2445.5
42.5°	2035.0	2075.1	2168.8	2284.9	2342.9
45°	1918.9	1959.1	2057.3	2168.8	2231.3
47.5°	1807.4	1838.6	1936.8	2052.8	2115.3
50°	1691.3	1718.1	1816.3	1932.3	1994.8
52.5°	1566.4	1602.1	1695.8	1811.8	1869.8
55°	1445.9	1472.7	1570.8	1682.4	1740.4
57.5°	1320.9	1347.7	1441.4	1553.0	1606.5
60°	1200.4	1227.2	1312.0	1423.6	1477.1
62.5°	1066.6	1093.3	1178.1	1294.2	1347.7
65°	946.1	968.4	1044.3	1151.4	1213.8
67.5°	825.6	847.9	919.3	1021.9	1071.0
70°	705.1	722.9	794.3	888.1	941.6
72.5°	589.1	606.9	678.3	763.1	807.7
75°	473.0	495.4	557.8	642.6	682.8
77.5°	365.9	388.2	441.8	517.7	553.4
80°	267.8	285.6	334.7	392.7	423.9
82.5°	178.5	191.9	227.6	276.7	299.0
85°	98.2	102.6	129.4	160.7	169.6
87.5°	40.2	40.2	49.1	53.6	58.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)