

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: P384023

Luminaire Tested: **24ID-55-L835-CFR2**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384023
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1911-572-66)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 2/25/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 24ID-55-L835-CFR2
Description: 2X4 IN DEPTH TROFFER WITH 2INCH RECESSED COFFER LENS

Light Source: -
Ballast/Driver: -

Summary

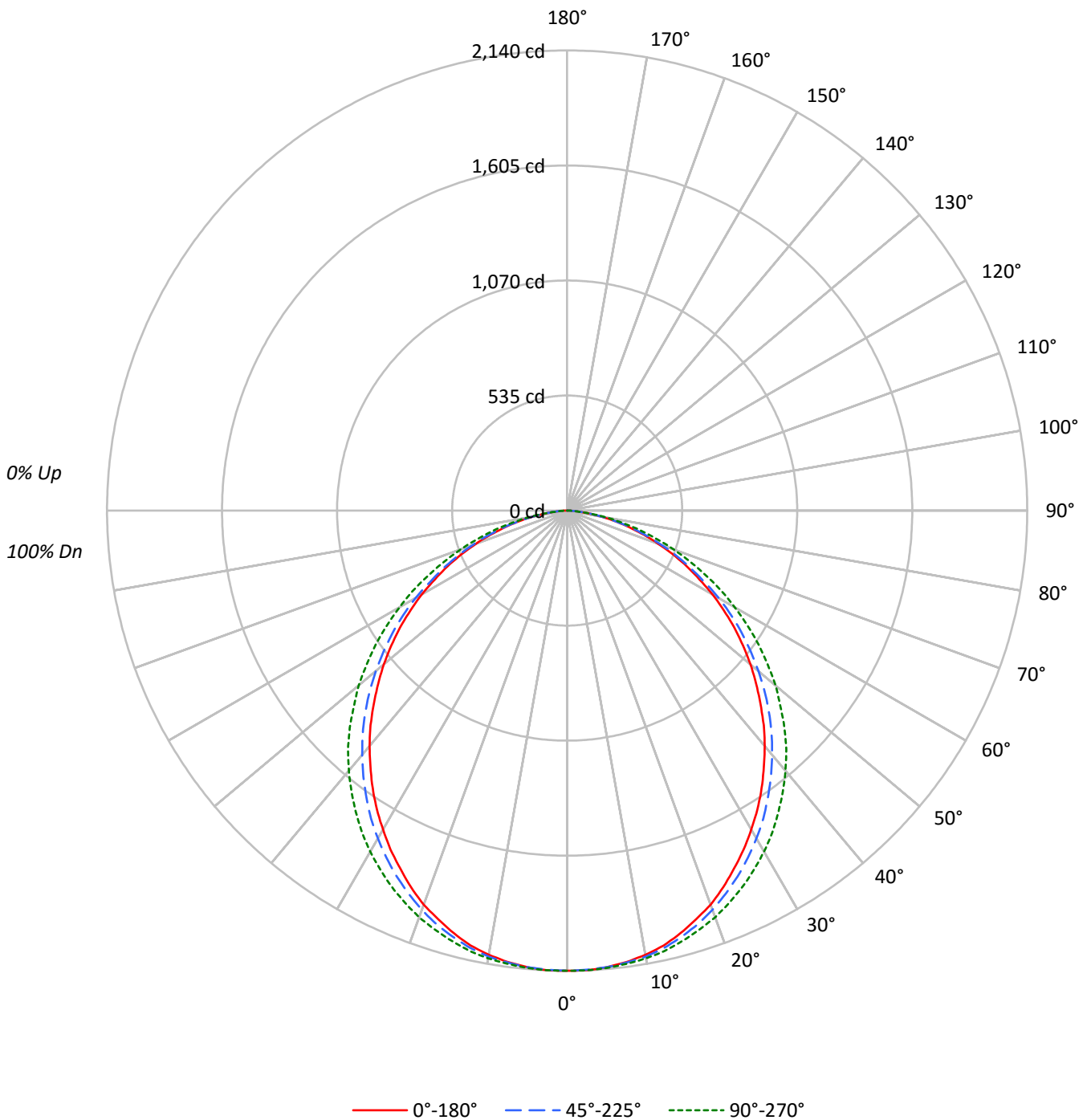
Lumens per Lamp: N/A
Luminaire Lumens: 5649.3 lumens
Efficiency: N/A
Efficacy: 112.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.27 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 50.2
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	105	101	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85
2	100	92	85	79	97	90	84	79	86	81	77	83	79	75	80	76	73	71
3	91	81	73	66	89	79	72	66	76	70	65	73	68	64	71	66	62	60
4	83	72	63	57	81	70	62	56	68	61	55	66	60	55	63	58	54	52
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42	53	47	42	52	46	41	39
7	66	53	44	38	64	52	44	38	50	43	37	49	42	37	47	41	37	35
8	61	48	40	34	60	47	39	34	46	39	33	45	38	33	44	38	33	31
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	27	38	32	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2879	2879	2879
5°	2879	2879	2883
10°	2866	2877	2889
15°	2835	2859	2886
20°	2793	2829	2882
25°	2727	2786	2866
30°	2661	2735	2845
35°	2590	2674	2813
40°	2511	2605	2774
45°	2418	2526	2720
50°	2329	2429	2649
55°	2225	2324	2550
60°	2102	2194	2422
65°	1956	2019	2262
70°	1771	1838	2071
75°	1545	1604	1810
80°	1251	1272	1426
85°	743	831	699



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	202.6	3.6
10°-20°	579.0	10.2
20°-30°	866.2	15.3
30°-40°	1023.4	18.1
40°-50°	1032.6	18.3
50°-60°	896.8	15.9
60°-70°	643.1	11.4
70°-80°	335.0	5.9
80°-90°	70.7	1.3
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°	1647.8	29.2
0°-40°	2671.2	47.3
0°-60°	4600.5	81.4
0°-90°	5649.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5649.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2140	2140	2140	2140	2140	
5°	2132	2129	2132	2132	2134	202
15°	2035	2038	2052	2066	2072	574
25°	1837	1848	1877	1914	1931	846
35°	1577	1588	1628	1687	1713	986
45°	1271	1285	1328	1396	1430	981
55°	948	957	991	1056	1087	847
65°	614	611	634	682	710	607
75°	297	294	308	331	348	317
85°	48	54	54	48	45	69
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2140.0	2140.0	2140.0	2140.0	2140.0
2.5°	2140.0	2137.2	2137.2	2137.2	2140.0
5°	2131.5	2128.7	2131.5	2131.5	2134.4
7.5°	2117.4	2114.6	2120.2	2123.0	2125.9
10°	2097.6	2097.6	2106.1	2111.7	2114.6
12.5°	2072.1	2072.1	2083.4	2091.9	2097.6
15°	2035.3	2038.1	2052.3	2066.4	2072.1
17.5°	1992.8	2001.3	2018.3	2038.1	2043.8
20°	1950.4	1956.0	1975.8	2001.3	2012.6
22.5°	1896.6	1905.1	1927.7	1961.7	1973.0
25°	1837.1	1848.5	1876.8	1913.6	1930.6
27.5°	1777.7	1786.2	1820.2	1862.6	1882.4
30°	1712.6	1723.9	1760.7	1808.8	1831.5
32.5°	1647.5	1656.0	1698.4	1749.4	1774.9
35°	1576.7	1588.0	1627.7	1687.1	1712.6
37.5°	1503.1	1517.3	1556.9	1619.2	1647.5
40°	1429.5	1438.0	1483.3	1545.6	1579.5
42.5°	1353.1	1364.4	1406.9	1474.8	1508.8
45°	1271.0	1285.1	1327.6	1395.5	1429.5
47.5°	1191.7	1205.9	1245.5	1313.5	1344.6
50°	1112.5	1121.0	1160.6	1228.5	1265.3
52.5°	1030.4	1038.9	1075.7	1140.8	1174.8
55°	948.3	956.8	990.8	1055.9	1087.0
57.5°	863.4	869.0	903.0	962.4	993.6
60°	781.3	784.1	815.2	869.0	900.2
62.5°	693.5	696.4	719.0	781.3	809.6
65°	614.3	611.4	634.1	682.2	710.5
67.5°	532.2	532.2	552.0	594.5	617.1
70°	450.1	450.1	467.1	503.9	526.5
72.5°	373.7	373.7	387.8	416.1	433.1
75°	297.2	294.4	308.5	331.2	348.2
77.5°	226.5	226.5	232.1	251.9	263.3
80°	161.4	161.4	164.2	175.5	184.0
82.5°	101.9	101.9	101.9	107.6	110.4
85°	48.1	53.8	53.8	48.1	45.3
87.5°	22.6	22.6	19.8	19.8	19.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)