

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: P384019

Luminaire Tested: **24ID-50-L835-CFR2**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384019
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-50-L835-CFR2
Description: 2X4 IN DEPTH TROFFER WITH 2INCH RECESSED COFFER LENS

Light Source: -
Ballast/Driver: -

Summary

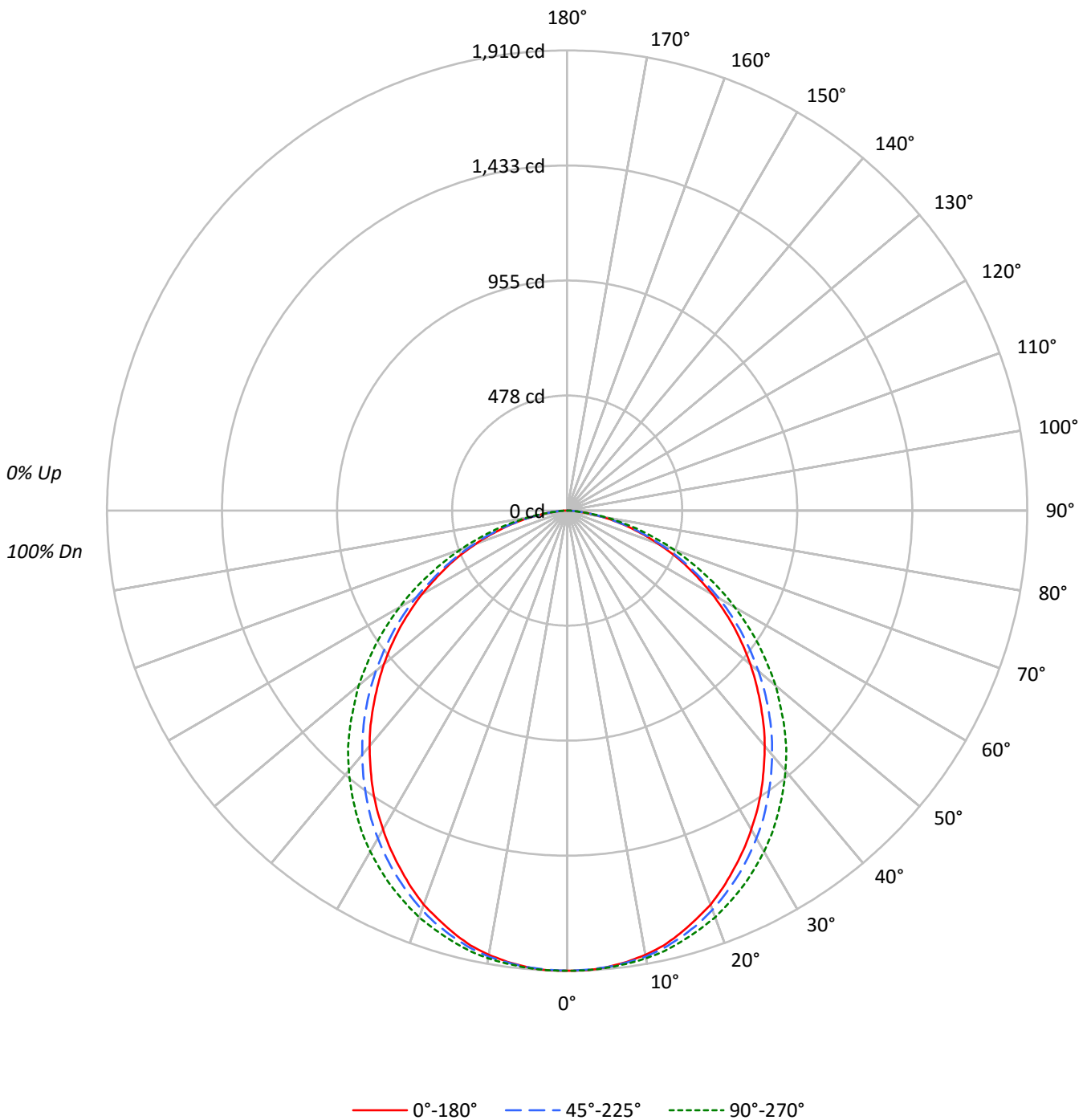
Lumens per Lamp: N/A
Luminaire Lumens: 5041.8 lumens
Efficiency: N/A
Efficacy: 114.3 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.27 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 44.1
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°	2570	2570	2570
5°	2569	2569	2573
10°	2558	2568	2578
15°	2530	2551	2576
20°	2492	2525	2572
25°	2434	2487	2558
30°	2375	2441	2539
35°	2311	2386	2510
40°	2241	2325	2476
45°	2158	2254	2428
50°	2078	2168	2364
55°	1985	2074	2276
60°	1876	1958	2162
65°	1745	1802	2019
70°	1580	1640	1849
75°	1379	1432	1615
80°	1116	1135	1272
85°	662	741	624



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	180.8	3.6
10°-20°	516.8	10.2
20°-30°	773.0	15.3
30°-40°	913.3	18.1
40°-50°	921.6	18.3
50°-60°	800.3	15.9
60°-70°	573.9	11.4
70°-80°	299.0	5.9
80°-90°	63.1	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°	1470.6	29.2
0°-40°	2383.9	47.3
0°-60°	4105.8	81.4
0°-90°	5041.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5041.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1910	1910	1910	1910	1910	
5°	1902	1900	1902	1902	1905	181
15°	1816	1819	1832	1844	1849	512
25°	1640	1650	1675	1708	1723	755
35°	1407	1417	1453	1506	1528	880
45°	1134	1147	1185	1246	1276	876
55°	846	854	884	942	970	756
65°	548	546	566	609	634	542
75°	265	263	275	296	311	283
85°	43	48	48	43	40	61
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1909.9	1909.9	1909.9	1909.9	1909.9
2.5°	1909.9	1907.4	1907.4	1907.4	1909.9
5°	1902.3	1899.8	1902.3	1902.3	1904.8
7.5°	1889.7	1887.2	1892.2	1894.7	1897.3
10°	1872.0	1872.0	1879.6	1884.6	1887.2
12.5°	1849.3	1849.3	1859.4	1867.0	1872.0
15°	1816.4	1819.0	1831.6	1844.2	1849.3
17.5°	1778.5	1786.1	1801.3	1819.0	1824.0
20°	1740.6	1745.7	1763.4	1786.1	1796.2
22.5°	1692.6	1700.2	1720.4	1750.7	1760.8
25°	1639.6	1649.7	1675.0	1707.8	1723.0
27.5°	1586.5	1594.1	1624.4	1662.3	1680.0
30°	1528.4	1538.5	1571.4	1614.3	1634.5
32.5°	1470.3	1477.9	1515.8	1561.3	1584.0
35°	1407.2	1417.3	1452.6	1505.7	1528.4
37.5°	1341.5	1354.1	1389.5	1445.1	1470.3
40°	1275.8	1283.4	1323.8	1379.4	1409.7
42.5°	1207.6	1217.7	1255.6	1316.2	1346.5
45°	1134.3	1147.0	1184.8	1245.5	1275.8
47.5°	1063.6	1076.2	1111.6	1172.2	1200.0
50°	992.8	1000.4	1035.8	1096.4	1129.3
52.5°	919.6	927.2	960.0	1018.1	1048.4
55°	846.3	853.9	884.2	942.3	970.1
57.5°	770.5	775.6	805.9	858.9	886.7
60°	697.3	699.8	727.6	775.6	803.4
62.5°	618.9	621.5	641.7	697.3	722.5
65°	548.2	545.7	565.9	608.8	634.1
67.5°	474.9	474.9	492.6	530.5	550.7
70°	401.7	401.7	416.8	449.7	469.9
72.5°	333.5	333.5	346.1	371.4	386.5
75°	265.3	262.7	275.4	295.6	310.7
77.5°	202.1	202.1	207.2	224.8	234.9
80°	144.0	144.0	146.5	156.6	164.2
82.5°	90.9	90.9	90.9	96.0	98.5
85°	42.9	48.0	48.0	42.9	40.4
87.5°	20.2	20.2	17.7	17.7	17.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)