

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: P383911

Luminaire Tested: **14ID-50-L835-CFR2**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P383911
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: 14ID-50-L835-CFR2
Description: 1X4 IN DEPTH TROFFER WITH 2INCH RECESSED COFFER LENS

Light Source: -
Ballast/Driver: -

Summary

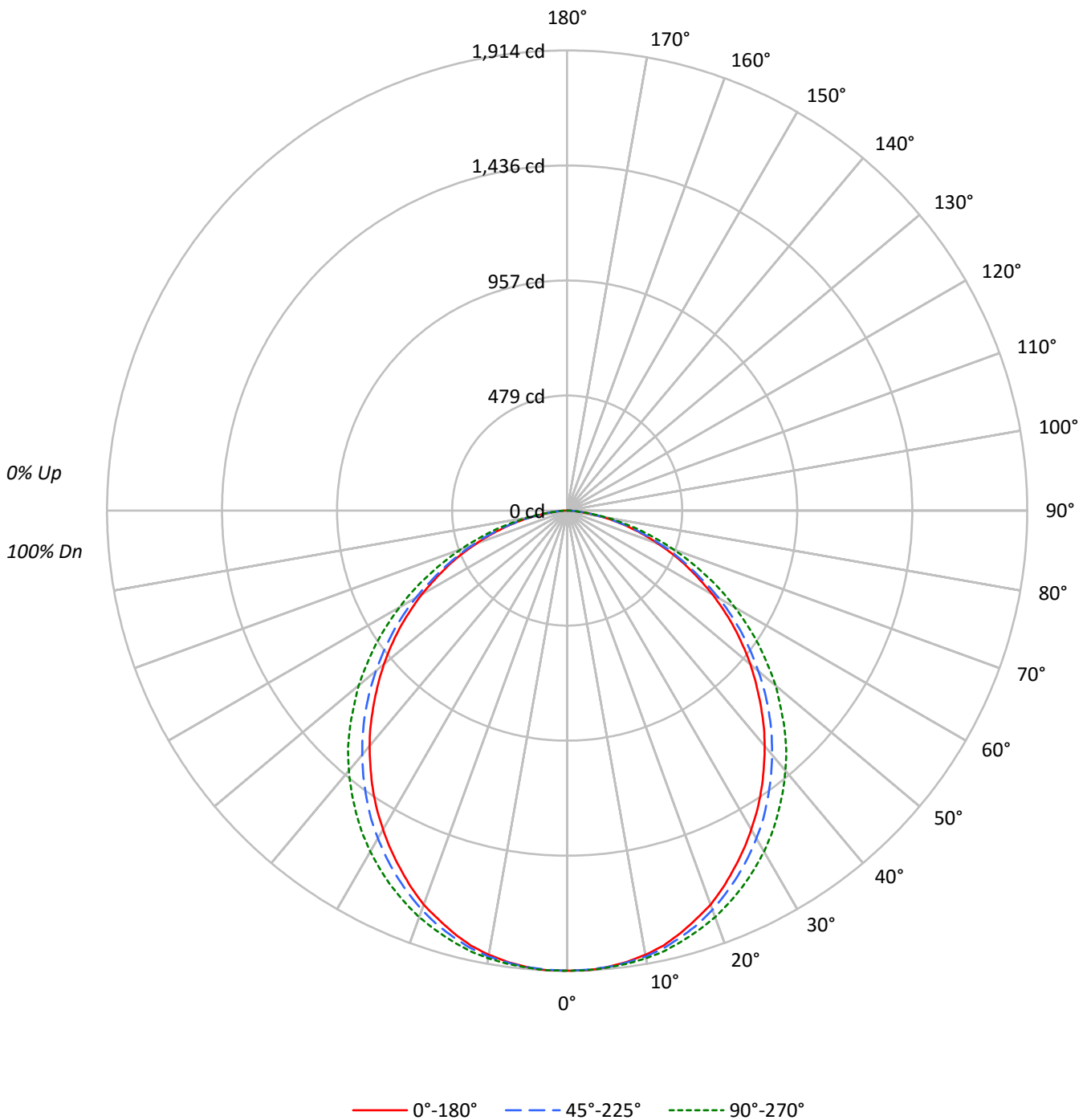
Lumens per Lamp: N/A
Luminaire Lumens: 5051.9 lumens
Efficiency: N/A
Efficacy: 117.2 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.27 / 1.33
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 43.1
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°	5150	5150	5150
5°	5149	5149	5156
10°	5126	5146	5167
15°	5071	5113	5162
20°	4995	5060	5154
25°	4878	4983	5126
30°	4759	4892	5089
35°	4632	4781	5031
40°	4490	4659	4962
45°	4325	4518	4865
50°	4165	4345	4737
55°	3978	4157	4561
60°	3760	3923	4332
65°	3498	3610	4046
70°	3167	3286	3704
75°	2764	2869	3238
80°	2236	2275	2549
85°	1328	1485	1250



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	181.2	3.6
10°-20°	517.8	10.2
20°-30°	774.6	15.3
30°-40°	915.1	18.1
40°-50°	923.4	18.3
50°-60°	801.9	15.9
60°-70°	575.0	11.4
70°-80°	299.6	5.9
80°-90°	63.2	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°	1473.6	29.2
0°-40°	2388.7	47.3
0°-60°	4114.0	81.4
0°-90°	5051.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5051.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1914	1914	1914	1914	1914	
5°	1906	1904	1906	1906	1909	181
15°	1820	1823	1835	1848	1853	513
25°	1643	1653	1678	1711	1726	757
35°	1410	1420	1456	1509	1532	881
45°	1137	1149	1187	1248	1278	878
55°	848	856	886	944	972	757
65°	549	547	567	610	635	543
75°	266	263	276	296	311	284
85°	43	48	48	43	40	62
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1913.7	1913.7	1913.7	1913.7	1913.7
2.5°	1913.7	1911.2	1911.2	1911.2	1913.7
5°	1906.1	1903.6	1906.1	1906.1	1908.7
7.5°	1893.5	1890.9	1896.0	1898.5	1901.1
10°	1875.8	1875.8	1883.3	1888.4	1890.9
12.5°	1853.0	1853.0	1863.1	1870.7	1875.8
15°	1820.1	1822.6	1835.3	1847.9	1853.0
17.5°	1782.1	1789.7	1804.9	1822.6	1827.7
20°	1744.1	1749.2	1766.9	1789.7	1799.8
22.5°	1696.0	1703.6	1723.9	1754.2	1764.4
25°	1642.9	1653.0	1678.3	1711.2	1726.4
27.5°	1589.7	1597.3	1627.7	1665.7	1683.4
30°	1531.5	1541.6	1574.5	1617.6	1637.8
32.5°	1473.3	1480.9	1518.8	1564.4	1587.2
35°	1410.0	1420.1	1455.5	1508.7	1531.5
37.5°	1344.2	1356.8	1392.3	1448.0	1473.3
40°	1278.3	1285.9	1326.4	1382.1	1412.5
42.5°	1210.0	1220.1	1258.1	1318.9	1349.2
45°	1136.6	1149.2	1187.2	1248.0	1278.3
47.5°	1065.7	1078.4	1113.8	1174.6	1202.4
50°	994.8	1002.4	1037.9	1098.6	1131.5
52.5°	921.4	929.0	961.9	1020.1	1050.5
55°	848.0	855.6	886.0	944.2	972.1
57.5°	772.1	777.1	807.5	860.7	888.5
60°	698.7	701.2	729.0	777.1	805.0
62.5°	620.2	622.7	643.0	698.7	724.0
65°	549.3	546.8	567.0	610.1	635.4
67.5°	475.9	475.9	493.6	531.6	551.8
70°	402.5	402.5	417.7	450.6	470.8
72.5°	334.1	334.1	346.8	372.1	387.3
75°	265.8	263.3	275.9	296.2	311.4
77.5°	202.5	202.5	207.6	225.3	235.4
80°	144.3	144.3	146.8	156.9	164.5
82.5°	91.1	91.1	91.1	96.2	98.7
85°	43.0	48.1	48.1	43.0	40.5
87.5°	20.3	20.3	17.7	17.7	17.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)