

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: P383743

Luminaire Tested: **14ID-50-L835-CFR1**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P383743
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1911-572-65)
Test Lab: INNOVATION CENTER (G2)
Issue Date: 2/25/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 14ID-50-L835-CFR1
Description: 1X4 IN DEPTH TROFFER WITH 1INCH RECESSED COFFER LENS

Light Source: -
Ballast/Driver: -

Summary

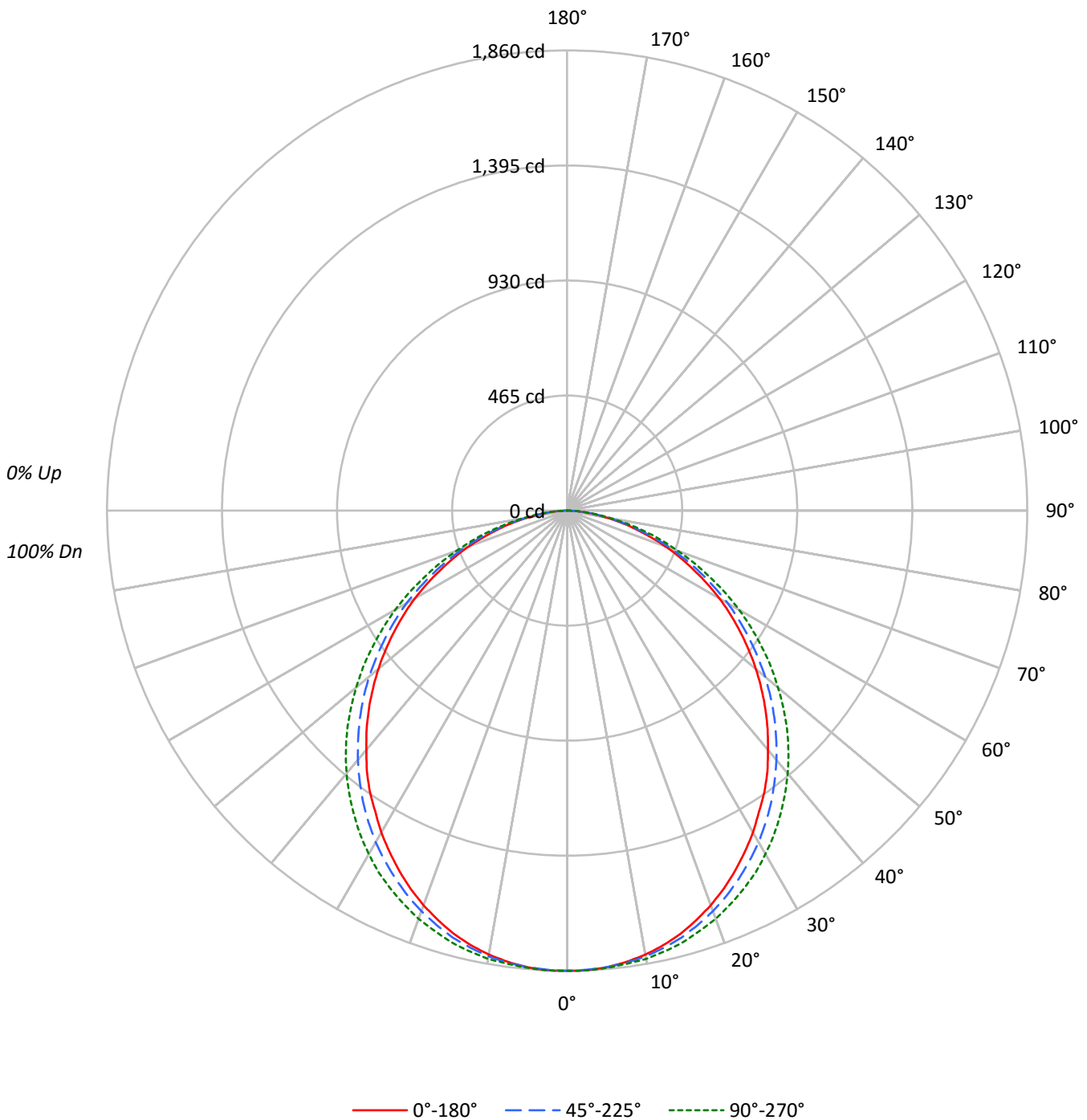
Lumens per Lamp: N/A
Luminaire Lumens: 5051.9 lumens
Efficiency: N/A
Efficacy: 117.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.35
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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



TEST NUMBER: P383743
CATALOG NUMBER: 14ID-50-L835-CFR1

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	95	98	95	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	81	76	82	78	74	79	76	73	71
3	91	80	72	66	88	79	71	65	76	69	64	73	67	63	70	66	62	60
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51
5	76	64	55	48	74	63	54	48	60	53	47	58	52	47	57	51	46	44
6	71	57	48	42	69	56	48	42	55	47	42	53	46	41	51	45	41	39
7	65	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34
8	61	47	39	33	59	47	39	33	45	38	33	44	38	33	43	37	32	31
9	57	44	35	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5006	5006	5006
5°	5004	5004	5011
10°	4979	5000	5027
15°	4934	4977	5034
20°	4861	4934	5029
25°	4768	4874	5010
30°	4667	4809	4983
35°	4566	4725	4934
40°	4437	4624	4874
45°	4313	4507	4787
50°	4170	4372	4659
55°	4006	4208	4507
60°	3829	4035	4322
65°	3576	3786	4045
70°	3319	3499	3739
75°	2959	3118	3382
80°	2481	2599	2836
85°	1883	1883	2118



TEST NUMBER: P383743

CATALOG NUMBER: 14ID-50-L835-CFR1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	176.1	3.5
10°-20°	503.8	10.0
20°-30°	757.4	15.0
30°-40°	901.1	17.8
40°-50°	916.9	18.1
50°-60°	806.9	16.0
60°-70°	591.9	11.7
70°-80°	321.3	6.4
80°-90°	76.7	1.5
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°	1437.3	28.4
0°-40°	2338.3	46.3
0°-60°	4062.1	80.4
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°	1860	1860	1860	1860	1860	
5°	1852	1850	1852	1852	1855	176
15°	1771	1774	1786	1797	1807	499
25°	1606	1616	1642	1670	1687	740
35°	1390	1400	1438	1482	1502	868
45°	1133	1144	1184	1235	1258	874
55°	854	866	897	940	961	764
65°	562	572	595	620	635	558
75°	285	290	300	315	325	302
85°	61	61	61	66	69	74
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1860.2	1860.2	1860.2	1860.2	1860.2
2.5°	1860.2	1857.6	1857.6	1857.6	1860.2
5°	1852.5	1850.0	1852.5	1852.5	1855.1
7.5°	1839.8	1837.3	1842.4	1844.9	1847.4
10°	1822.0	1822.0	1829.7	1834.7	1839.8
12.5°	1799.2	1801.7	1809.3	1817.0	1824.6
15°	1771.2	1773.8	1786.5	1796.6	1806.8
17.5°	1735.6	1740.7	1756.0	1771.2	1781.4
20°	1697.5	1705.1	1722.9	1743.3	1756.0
22.5°	1654.3	1664.5	1684.8	1710.2	1722.9
25°	1606.0	1616.2	1641.6	1669.6	1687.4
27.5°	1555.2	1567.9	1595.9	1628.9	1649.2
30°	1501.8	1514.5	1547.6	1583.2	1603.5
32.5°	1443.4	1458.6	1494.2	1534.9	1555.2
35°	1390.0	1400.2	1438.3	1481.5	1501.8
37.5°	1329.0	1341.7	1377.3	1423.1	1445.9
40°	1263.0	1275.7	1316.3	1362.1	1387.5
42.5°	1199.4	1209.6	1250.3	1301.1	1324.0
45°	1133.4	1143.5	1184.2	1235.0	1257.9
47.5°	1064.8	1077.5	1115.6	1163.9	1186.7
50°	996.1	1006.3	1044.4	1090.2	1113.0
52.5°	925.0	935.2	970.7	1016.5	1039.3
55°	853.8	866.5	897.0	940.2	960.6
57.5°	782.7	795.4	823.3	864.0	881.8
60°	711.5	721.7	749.7	785.2	803.0
62.5°	635.3	642.9	670.9	706.5	721.7
65°	561.6	571.8	594.6	620.1	635.3
67.5°	493.0	498.1	518.4	546.4	556.5
70°	421.8	426.9	444.7	467.6	475.2
72.5°	350.7	358.3	371.0	391.3	401.5
75°	284.6	289.7	299.9	315.1	325.3
77.5°	221.1	223.6	231.2	244.0	251.6
80°	160.1	162.6	167.7	177.9	183.0
82.5°	106.7	109.3	111.8	116.9	122.0
85°	61.0	61.0	61.0	66.1	68.6
87.5°	22.9	20.3	20.3	20.3	20.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)