

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: P383742

Luminaire Tested: **14ID-50-L830-CFR1**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P383742
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-L830-CFR1
Description: 1X4 IN DEPTH TROFFER WITH 1INCH RECESSED COFFER LENS

Light Source: -
Ballast/Driver: -

Summary

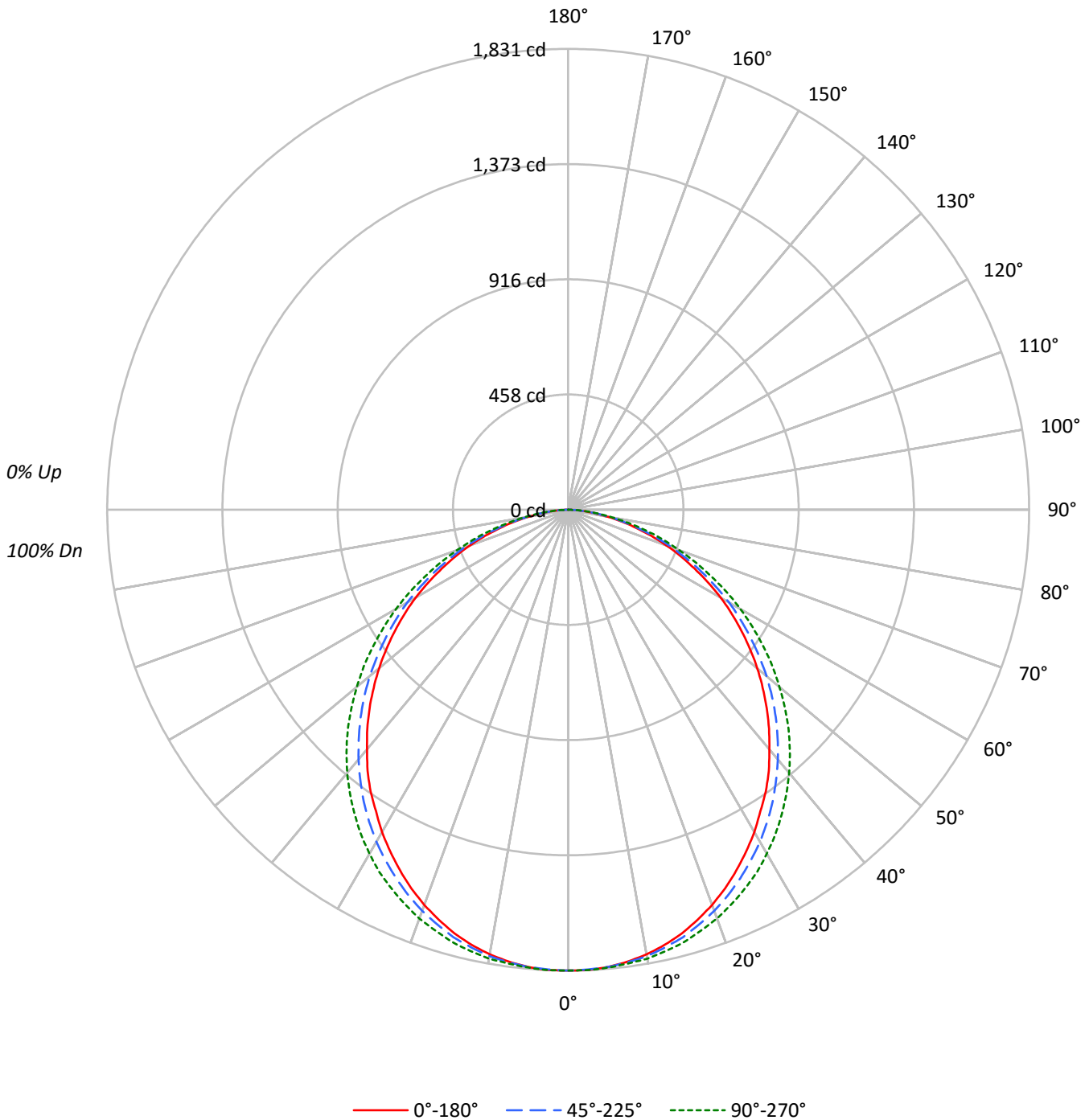
Lumens per Lamp: N/A
Luminaire Lumens: 4973.0 lumens
Efficiency: N/A
Efficacy: 115.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.35
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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



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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	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°	4927	4927	4927
5°	4926	4926	4933
10°	4901	4921	4949
15°	4857	4899	4955
20°	4785	4857	4950
25°	4694	4798	4932
30°	4594	4734	4905
35°	4495	4651	4857
40°	4367	4552	4798
45°	4246	4436	4712
50°	4105	4304	4587
55°	3943	4143	4436
60°	3770	3971	4254
65°	3520	3727	3982
70°	3267	3445	3681
75°	2913	3069	3329
80°	2442	2559	2791
85°	1853	1853	2084



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	173.3	3.5
10°-20°	495.9	10.0
20°-30°	745.6	15.0
30°-40°	887.0	17.8
40°-50°	902.5	18.1
50°-60°	794.3	16.0
60°-70°	582.7	11.7
70°-80°	316.2	6.4
80°-90°	75.5	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°	1414.8	28.4
0°-40°	2301.8	46.3
0°-60°	3998.6	80.4
0°-90°	4973.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4973.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1831	1831	1831	1831	1831	
5°	1824	1821	1824	1824	1826	173
15°	1744	1746	1759	1769	1779	491
25°	1581	1591	1616	1644	1661	728
35°	1368	1378	1416	1458	1478	854
45°	1116	1126	1166	1216	1238	860
55°	840	853	883	926	946	752
65°	553	563	585	610	625	549
75°	280	285	295	310	320	298
85°	60	60	60	65	68	72
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1831.1	1831.1	1831.1	1831.1	1831.1
2.5°	1831.1	1828.6	1828.6	1828.6	1831.1
5°	1823.6	1821.1	1823.6	1823.6	1826.1
7.5°	1811.1	1808.6	1813.6	1816.1	1818.6
10°	1793.6	1793.6	1801.1	1806.1	1811.1
12.5°	1771.1	1773.6	1781.1	1788.6	1796.1
15°	1743.5	1746.0	1758.6	1768.6	1778.6
17.5°	1708.5	1713.5	1728.5	1743.5	1753.6
20°	1671.0	1678.5	1696.0	1716.0	1728.5
22.5°	1628.5	1638.5	1658.5	1683.5	1696.0
25°	1580.9	1591.0	1616.0	1643.5	1661.0
27.5°	1530.9	1543.4	1570.9	1603.5	1623.5
30°	1478.4	1490.9	1523.4	1558.4	1578.4
32.5°	1420.9	1435.9	1470.9	1510.9	1530.9
35°	1368.3	1378.3	1415.9	1458.4	1478.4
37.5°	1308.3	1320.8	1355.8	1400.8	1423.4
40°	1243.2	1255.8	1295.8	1340.8	1365.8
42.5°	1180.7	1190.7	1230.7	1280.8	1303.3
45°	1115.7	1125.7	1165.7	1215.7	1238.2
47.5°	1048.1	1060.6	1098.2	1145.7	1168.2
50°	980.6	990.6	1028.1	1073.1	1095.7
52.5°	910.5	920.6	955.6	1000.6	1023.1
55°	840.5	853.0	883.0	925.6	945.6
57.5°	770.5	783.0	810.5	850.5	868.0
60°	700.4	710.4	737.9	773.0	790.5
62.5°	625.4	632.9	660.4	695.4	710.4
65°	552.8	562.8	585.4	610.4	625.4
67.5°	485.3	490.3	510.3	537.8	547.8
70°	415.2	420.3	437.8	460.3	467.8
72.5°	345.2	352.7	365.2	385.2	395.2
75°	280.2	285.2	295.2	310.2	320.2
77.5°	217.6	220.1	227.6	240.1	247.6
80°	157.6	160.1	165.1	175.1	180.1
82.5°	105.1	107.6	110.1	115.1	120.1
85°	60.0	60.0	60.0	65.0	67.5
87.5°	22.5	20.0	20.0	20.0	20.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)