

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: P383910

Luminaire Tested: **14ID-50-L830-CFR2**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P383910
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-L830-CFR2
Description: 1X4 IN DEPTH TROFFER WITH 2INCH RECESSED COFFER LENS

Light Source: -
Ballast/Driver: -

Summary

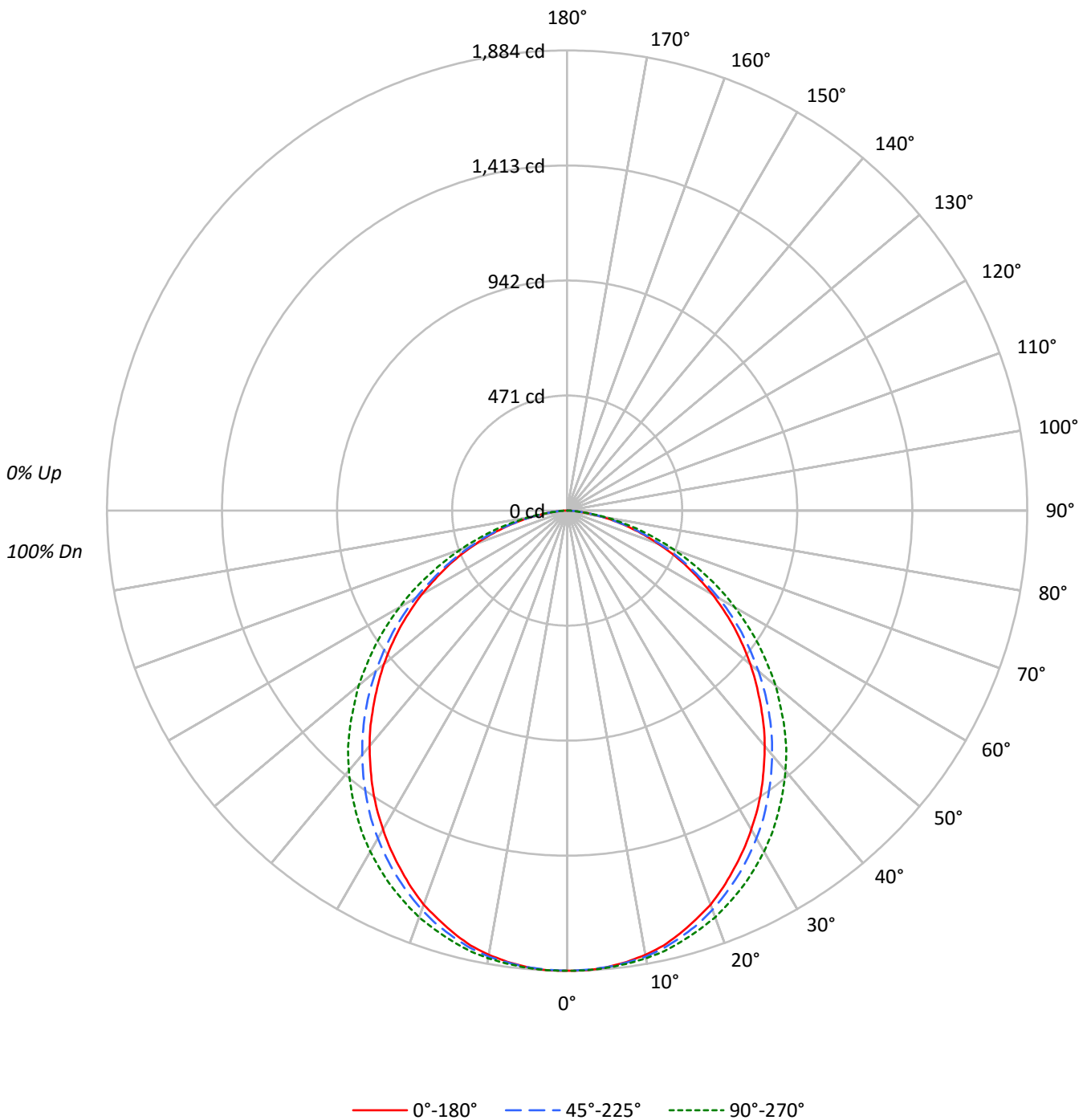
Lumens per Lamp: N/A
Luminaire Lumens: 4973.0 lumens
Efficiency: N/A
Efficacy: 115.4 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.27 / 1.33
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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°	5069	5069	5069
5°	5069	5069	5075
10°	5046	5066	5086
15°	4991	5033	5081
20°	4917	4981	5074
25°	4802	4905	5046
30°	4685	4816	5010
35°	4560	4707	4953
40°	4421	4587	4885
45°	4258	4448	4789
50°	4100	4277	4663
55°	3917	4092	4489
60°	3702	3863	4265
65°	3443	3554	3983
70°	3117	3235	3647
75°	2720	2824	3187
80°	2201	2239	2510
85°	1309	1460	1232



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	178.3	3.6
10°-20°	509.7	10.2
20°-30°	762.5	15.3
30°-40°	900.8	18.1
40°-50°	909.0	18.3
50°-60°	789.4	15.9
60°-70°	566.1	11.4
70°-80°	294.9	5.9
80°-90°	62.2	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°	1450.5	29.2
0°-40°	2351.4	47.3
0°-60°	4049.8	81.4
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°	1884	1884	1884	1884	1884	
5°	1876	1874	1876	1876	1879	178
15°	1792	1794	1807	1819	1824	505
25°	1617	1627	1652	1684	1699	745
35°	1388	1398	1433	1485	1508	868
45°	1119	1131	1169	1228	1258	864
55°	835	842	872	930	957	746
65°	541	538	558	600	626	535
75°	262	259	272	292	306	279
85°	42	47	47	42	40	61
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1883.8	1883.8	1883.8	1883.8	1883.8
2.5°	1883.8	1881.3	1881.3	1881.3	1883.8
5°	1876.4	1873.9	1876.4	1876.4	1878.9
7.5°	1863.9	1861.4	1866.4	1868.9	1871.4
10°	1846.5	1846.5	1853.9	1858.9	1861.4
12.5°	1824.0	1824.0	1834.0	1841.5	1846.5
15°	1791.6	1794.1	1806.6	1819.0	1824.0
17.5°	1754.3	1761.7	1776.7	1794.1	1799.1
20°	1716.9	1721.9	1739.3	1761.7	1771.7
22.5°	1669.5	1677.0	1696.9	1726.9	1736.8
25°	1617.2	1627.2	1652.1	1684.5	1699.4
27.5°	1564.9	1572.4	1602.3	1639.6	1657.1
30°	1507.6	1517.5	1549.9	1592.3	1612.2
32.5°	1450.3	1457.7	1495.1	1540.0	1562.4
35°	1388.0	1397.9	1432.8	1485.1	1507.6
37.5°	1323.2	1335.6	1370.5	1425.3	1450.3
40°	1258.4	1265.9	1305.7	1360.5	1390.5
42.5°	1191.1	1201.1	1238.4	1298.3	1328.2
45°	1118.8	1131.3	1168.7	1228.5	1258.4
47.5°	1049.1	1061.5	1096.4	1156.2	1183.6
50°	979.3	986.8	1021.7	1081.5	1113.9
52.5°	907.0	914.5	946.9	1004.2	1034.1
55°	834.8	842.2	872.1	929.5	956.9
57.5°	760.0	765.0	794.9	847.2	874.6
60°	687.8	690.2	717.7	765.0	792.4
62.5°	610.5	613.0	632.9	687.8	712.7
65°	540.7	538.2	558.2	600.5	625.5
67.5°	468.5	468.5	485.9	523.3	543.2
70°	396.2	396.2	411.2	443.5	463.5
72.5°	328.9	328.9	341.4	366.3	381.3
75°	261.6	259.2	271.6	291.5	306.5
77.5°	199.3	199.3	204.3	221.8	231.7
80°	142.0	142.0	144.5	154.5	162.0
82.5°	89.7	89.7	89.7	94.7	97.2
85°	42.4	47.3	47.3	42.4	39.9
87.5°	19.9	19.9	17.4	17.4	17.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)