

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: P383913

Luminaire Tested: **14ID-50-L850-CFR2**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P383913
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-L850-CFR2
Description: 1X4 IN DEPTH TROFFER WITH 2INCH RECESSED COFFER LENS

Light Source: -
Ballast/Driver: -

Summary

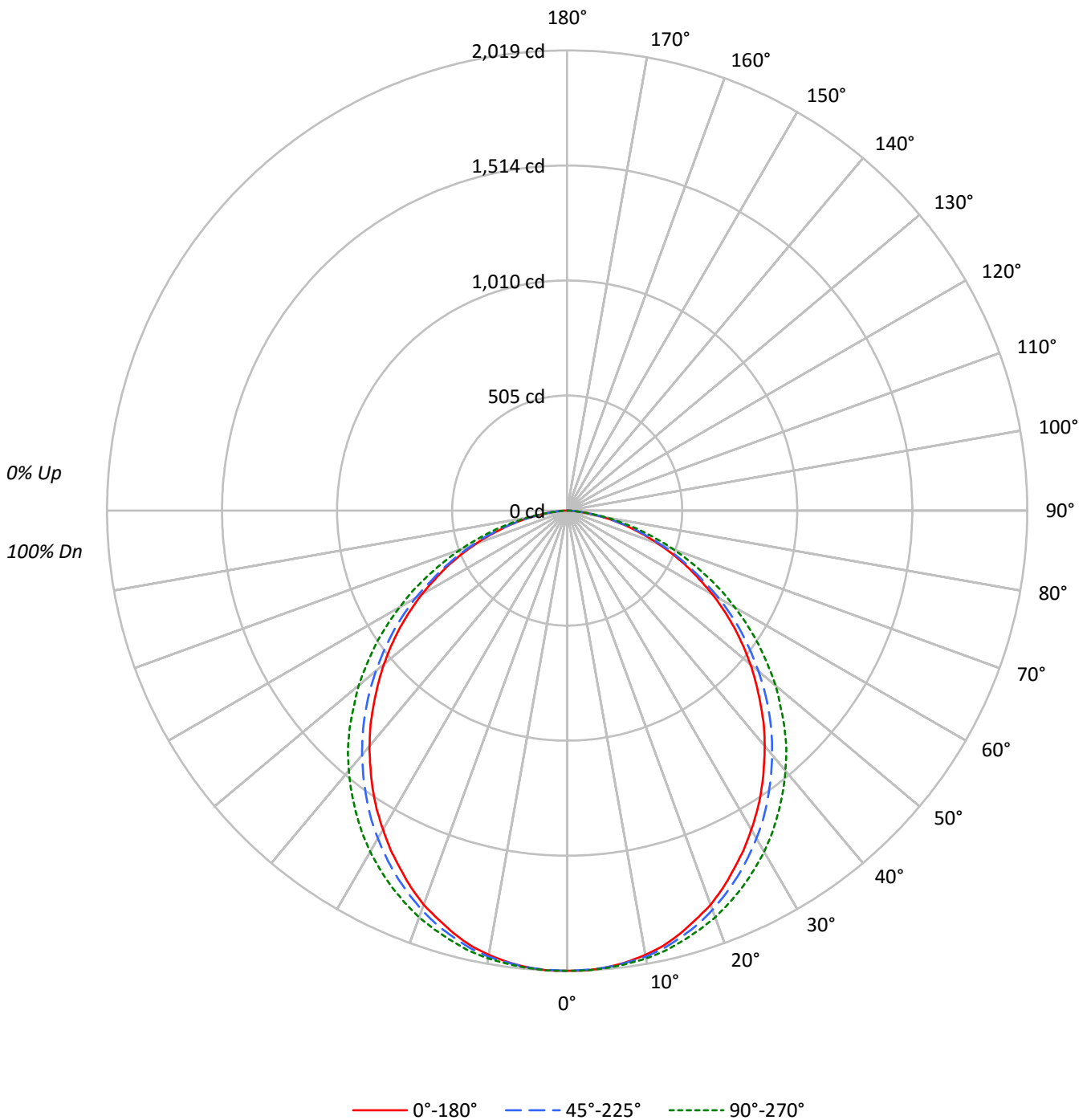
Lumens per Lamp: N/A
Luminaire Lumens: 5330.7 lumens
Efficiency: N/A
Efficacy: 123.7 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.27 / 1.33
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 43.1
Input Voltage (V): NR
Input Current (Ain): 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°	5434	5434	5434
5°	5433	5433	5440
10°	5408	5430	5452
15°	5350	5395	5447
20°	5270	5339	5438
25°	5147	5258	5409
30°	5021	5162	5370
35°	4888	5046	5309
40°	4738	4917	5236
45°	4564	4767	5133
50°	4394	4585	4999
55°	4198	4386	4812
60°	3968	4140	4571
65°	3691	3810	4269
70°	3341	3467	3909
75°	2916	3027	3415
80°	2360	2400	2690
85°	1402	1568	1318



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	191.2	3.6
10°-20°	546.4	10.2
20°-30°	817.3	15.3
30°-40°	965.6	18.1
40°-50°	974.4	18.3
50°-60°	846.2	15.9
60°-70°	606.8	11.4
70°-80°	316.1	5.9
80°-90°	66.7	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°	1554.9	29.2
0°-40°	2520.5	47.3
0°-60°	4341.1	81.4
0°-90°	5330.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5330.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2019	2019	2019	2019	2019	
5°	2011	2009	2011	2011	2014	191
15°	1920	1923	1936	1950	1955	541
25°	1734	1744	1771	1806	1822	799
35°	1488	1498	1536	1592	1616	930
45°	1199	1213	1253	1317	1349	926
55°	895	903	935	996	1026	799
65°	580	577	598	644	670	573
75°	280	278	291	312	328	299
85°	45	51	51	45	43	65
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2019.3	2019.3	2019.3	2019.3	2019.3
2.5°	2019.3	2016.7	2016.7	2016.7	2019.3
5°	2011.3	2008.7	2011.3	2011.3	2014.0
7.5°	1998.0	1995.3	2000.6	2003.3	2006.0
10°	1979.3	1979.3	1987.3	1992.6	1995.3
12.5°	1955.2	1955.2	1965.9	1973.9	1979.3
15°	1920.5	1923.2	1936.5	1949.9	1955.2
17.5°	1880.4	1888.5	1904.5	1923.2	1928.5
20°	1840.4	1845.7	1864.4	1888.5	1899.1
22.5°	1789.6	1797.6	1819.0	1851.1	1861.7
25°	1733.5	1744.2	1770.9	1805.7	1821.7
27.5°	1677.4	1685.5	1717.5	1757.6	1776.3
30°	1616.0	1626.7	1661.4	1706.8	1728.2
32.5°	1554.6	1562.6	1602.7	1650.7	1674.8
35°	1487.8	1498.5	1535.9	1592.0	1616.0
37.5°	1418.3	1431.7	1469.1	1527.9	1554.6
40°	1348.9	1356.9	1399.6	1458.4	1490.5
42.5°	1276.8	1287.5	1327.5	1391.6	1423.7
45°	1199.3	1212.7	1252.7	1316.8	1348.9
47.5°	1124.5	1137.9	1175.3	1239.4	1268.8
50°	1049.7	1057.7	1095.1	1159.3	1194.0
52.5°	972.3	980.3	1015.0	1076.4	1108.5
55°	894.8	902.8	934.9	996.3	1025.7
57.5°	814.7	820.0	852.1	908.2	937.6
60°	737.2	739.9	769.3	820.0	849.4
62.5°	654.4	657.1	678.5	737.2	763.9
65°	579.6	577.0	598.3	643.7	670.4
67.5°	502.2	502.2	520.9	560.9	582.3
70°	424.7	424.7	440.7	475.5	496.8
72.5°	352.6	352.6	365.9	392.6	408.7
75°	280.5	277.8	291.1	312.5	328.5
77.5°	213.7	213.7	219.0	237.7	248.4
80°	152.3	152.3	154.9	165.6	173.6
82.5°	96.2	96.2	96.2	101.5	104.2
85°	45.4	50.8	50.8	45.4	42.7
87.5°	21.4	21.4	18.7	18.7	18.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)