

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: P383745

Luminaire Tested: **14ID-50-L850-CFR1**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P383745
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-L850-CFR1
Description: 1X4 IN DEPTH TROFFER WITH 1INCH RECESSED COFFER LENS

Light Source: -
Ballast/Driver: -

Summary

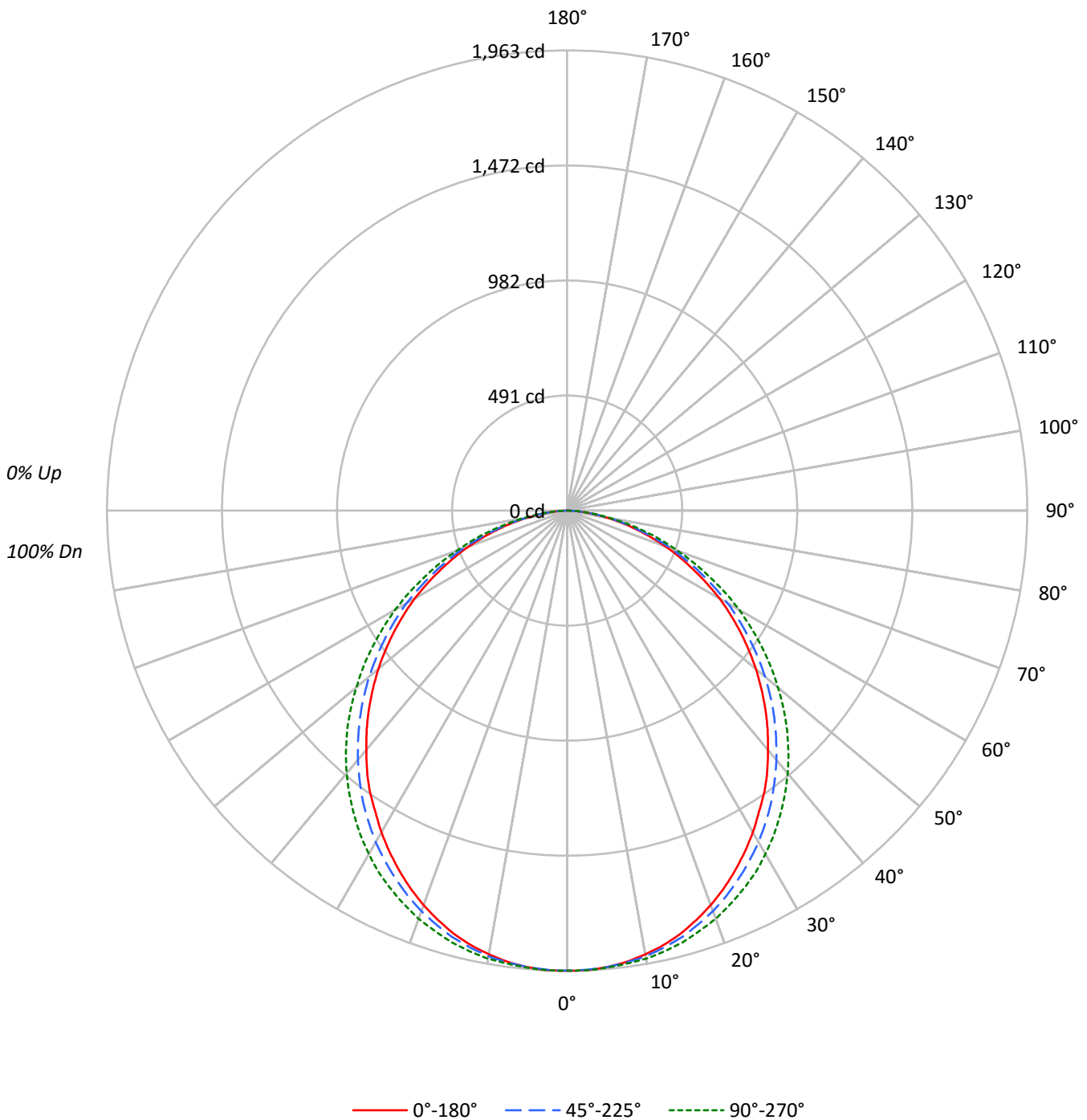
Lumens per Lamp: N/A
Luminaire Lumens: 5330.7 lumens
Efficiency: N/A
Efficacy: 123.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.35
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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°	5282	5282	5282
5°	5280	5280	5287
10°	5253	5275	5305
15°	5207	5251	5311
20°	5129	5206	5306
25°	5032	5143	5287
30°	4924	5074	5258
35°	4818	4986	5206
40°	4682	4879	5143
45°	4551	4755	5051
50°	4400	4614	4917
55°	4227	4441	4755
60°	4041	4257	4560
65°	3773	3996	4269
70°	3502	3692	3945
75°	3122	3290	3568
80°	2617	2743	2992
85°	1988	1988	2235



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	185.8	3.5
10°-20°	531.6	10.0
20°-30°	799.2	15.0
30°-40°	950.8	17.8
40°-50°	967.4	18.1
50°-60°	851.4	16.0
60°-70°	624.6	11.7
70°-80°	339.0	6.4
80°-90°	80.9	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°	1516.6	28.4
0°-40°	2467.4	46.3
0°-60°	4286.2	80.4
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°	1963	1963	1963	1963	1963	
5°	1955	1952	1955	1955	1957	186
15°	1869	1872	1885	1896	1906	526
25°	1695	1705	1732	1762	1780	781
35°	1467	1478	1518	1563	1585	916
45°	1196	1207	1250	1303	1327	922
55°	901	914	946	992	1014	806
65°	593	603	628	654	670	589
75°	300	306	316	332	343	319
85°	64	64	64	70	72	78
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1962.8	1962.8	1962.8	1962.8	1962.8
2.5°	1962.8	1960.1	1960.1	1960.1	1962.8
5°	1954.8	1952.1	1954.8	1954.8	1957.4
7.5°	1941.4	1938.7	1944.0	1946.7	1949.4
10°	1922.6	1922.6	1930.6	1936.0	1941.4
12.5°	1898.5	1901.1	1909.2	1917.2	1925.3
15°	1869.0	1871.6	1885.0	1895.8	1906.5
17.5°	1831.4	1836.8	1852.9	1869.0	1879.7
20°	1791.2	1799.2	1818.0	1839.5	1852.9
22.5°	1745.6	1756.3	1777.8	1804.6	1818.0
25°	1694.7	1705.4	1732.2	1761.7	1780.5
27.5°	1641.0	1654.4	1683.9	1718.8	1740.2
30°	1584.7	1598.1	1633.0	1670.5	1692.0
32.5°	1523.1	1539.1	1576.7	1619.6	1641.0
35°	1466.7	1477.5	1517.7	1563.3	1584.7
37.5°	1402.4	1415.8	1453.3	1501.6	1525.7
40°	1332.7	1346.1	1389.0	1437.2	1464.1
42.5°	1265.6	1276.4	1319.3	1372.9	1397.0
45°	1195.9	1206.6	1249.5	1303.2	1327.3
47.5°	1123.5	1136.9	1177.1	1228.1	1252.2
50°	1051.1	1061.8	1102.1	1150.3	1174.5
52.5°	976.0	986.8	1024.3	1072.6	1096.7
55°	901.0	914.4	946.5	992.1	1013.6
57.5°	825.9	839.3	868.8	911.7	930.5
60°	750.8	761.5	791.0	828.6	847.3
62.5°	670.4	678.4	707.9	745.4	761.5
65°	592.6	603.3	627.5	654.3	670.4
67.5°	520.2	525.6	547.0	576.5	587.2
70°	445.1	450.5	469.3	493.4	501.4
72.5°	370.0	378.1	391.5	412.9	423.7
75°	300.3	305.7	316.4	332.5	343.2
77.5°	233.3	236.0	244.0	257.4	265.5
80°	168.9	171.6	177.0	187.7	193.1
82.5°	112.6	115.3	118.0	123.3	128.7
85°	64.4	64.4	64.4	69.7	72.4
87.5°	24.1	21.5	21.5	21.5	21.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)