

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: P383749

Luminaire Tested: **14ID-55-L850-CFR1**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P383749
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-55-L850-CFR1
Description: 1X4 IN DEPTH TROFFER WITH 1INCH RECESSED COFFER LENS

Light Source: -
Ballast/Driver: -

Summary

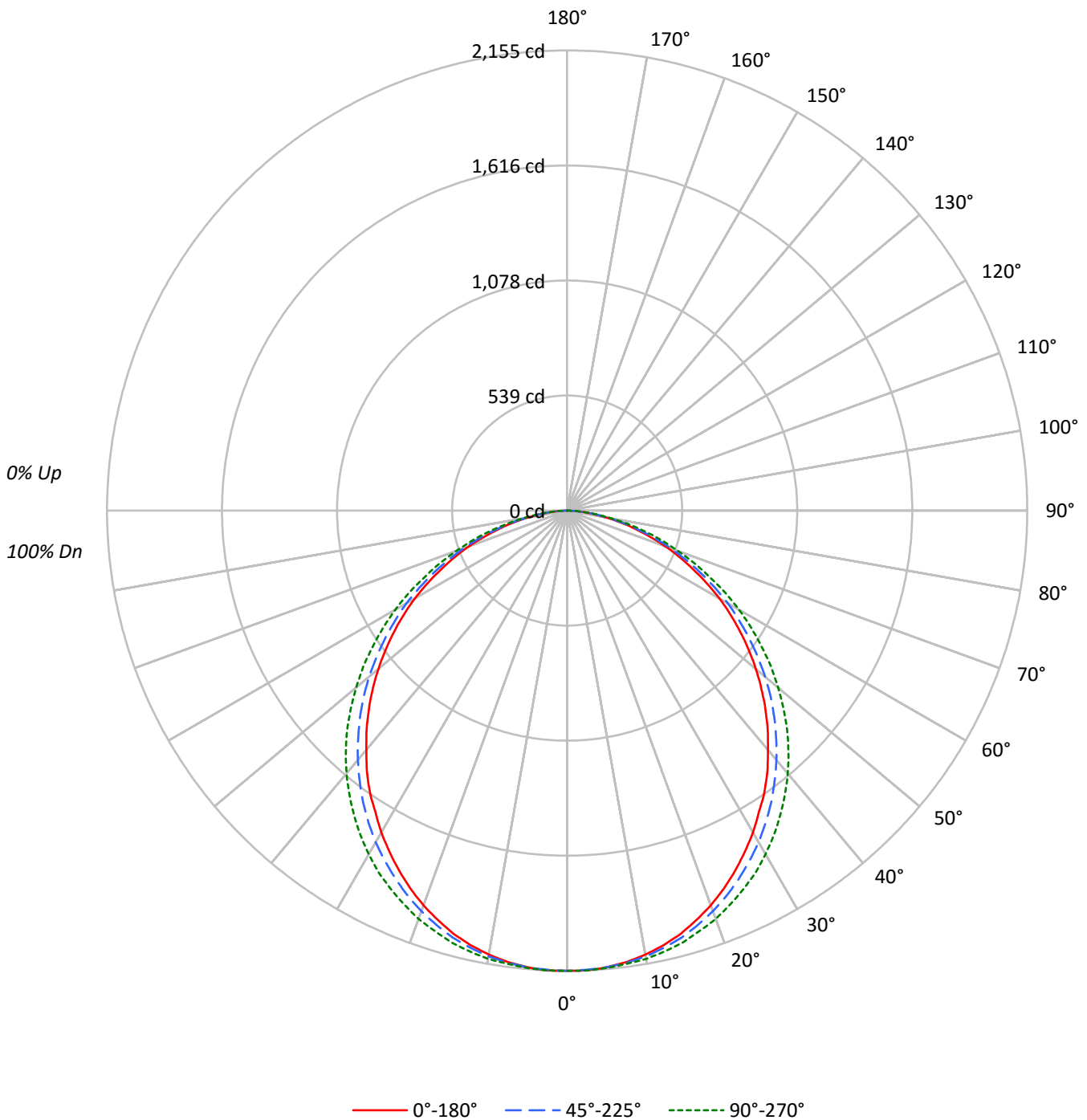
Lumens per Lamp: N/A
Luminaire Lumens: 5853.8 lumens
Efficiency: N/A
Efficacy: 121.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.35
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 48.2
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°	5800	5800	5800
5°	5799	5799	5806
10°	5769	5793	5825
15°	5718	5767	5833
20°	5633	5717	5827
25°	5526	5648	5805
30°	5407	5572	5773
35°	5291	5475	5717
40°	5141	5358	5648
45°	4998	5222	5547
50°	4832	5066	5399
55°	4642	4876	5222
60°	4437	4675	5008
65°	4143	4387	4687
70°	3846	4054	4332
75°	3429	3613	3919
80°	2875	3011	3285
85°	2183	2183	2455



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	204.0	3.5
10°-20°	583.7	10.0
20°-30°	877.7	15.0
30°-40°	1044.1	17.8
40°-50°	1062.4	18.1
50°-60°	935.0	16.0
60°-70°	685.9	11.7
70°-80°	372.3	6.4
80°-90°	88.8	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°	1665.4	28.4
0°-40°	2709.5	46.3
0°-60°	4706.9	80.4
0°-90°	5853.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5853.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2155	2155	2155	2155	2155	
5°	2147	2144	2147	2147	2150	204
15°	2052	2055	2070	2082	2094	578
25°	1861	1873	1902	1935	1955	857
35°	1611	1622	1667	1717	1740	1006
45°	1313	1325	1372	1431	1458	1012
55°	989	1004	1039	1090	1113	885
65°	651	662	689	718	736	647
75°	330	336	348	365	377	350
85°	71	71	71	77	80	85
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2155.4	2155.4	2155.4	2155.4	2155.4
2.5°	2155.4	2152.5	2152.5	2152.5	2155.4
5°	2146.6	2143.6	2146.6	2146.6	2149.5
7.5°	2131.9	2128.9	2134.8	2137.8	2140.7
10°	2111.2	2111.2	2120.1	2126.0	2131.9
12.5°	2084.7	2087.7	2096.5	2105.4	2114.2
15°	2052.4	2055.3	2070.0	2081.8	2093.6
17.5°	2011.1	2017.0	2034.7	2052.4	2064.1
20°	1967.0	1975.8	1996.4	2020.0	2034.7
22.5°	1916.9	1928.7	1952.2	1981.7	1996.4
25°	1861.0	1872.7	1902.2	1934.6	1955.2
27.5°	1802.1	1816.8	1849.2	1887.5	1911.0
30°	1740.2	1755.0	1793.2	1834.5	1858.0
32.5°	1672.5	1690.2	1731.4	1778.5	1802.1
35°	1610.7	1622.5	1666.6	1716.7	1740.2
37.5°	1540.0	1554.7	1596.0	1649.0	1675.5
40°	1463.4	1478.2	1525.3	1578.3	1607.7
42.5°	1389.8	1401.6	1448.7	1507.6	1534.1
45°	1313.3	1325.1	1372.2	1431.1	1457.6
47.5°	1233.8	1248.5	1292.7	1348.6	1375.1
50°	1154.3	1166.0	1210.2	1263.2	1289.7
52.5°	1071.8	1083.6	1124.8	1177.8	1204.3
55°	989.4	1004.1	1039.4	1089.5	1113.0
57.5°	906.9	921.6	954.0	1001.2	1021.8
60°	824.5	836.3	868.6	909.9	930.5
62.5°	736.1	745.0	777.4	818.6	836.3
65°	650.7	662.5	689.0	718.5	736.1
67.5°	571.2	577.1	600.7	633.1	644.9
70°	488.8	494.7	515.3	541.8	550.6
72.5°	406.3	415.2	429.9	453.5	465.2
75°	329.8	335.7	347.5	365.1	376.9
77.5°	256.2	259.1	268.0	282.7	291.5
80°	185.5	188.5	194.3	206.1	212.0
82.5°	123.7	126.6	129.6	135.4	141.3
85°	70.7	70.7	70.7	76.6	79.5
87.5°	26.5	23.6	23.6	23.6	23.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)