

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: P412338

Luminaire Tested: **14PD-55-PB1-L850**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412338
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-56)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 14PD-55-PB1-L850
Description: 5500 LUMEN 1X4 PERCEIVE LED TROFFER WITH BEVEL PATTERN OPTICS AND 80 CRI, 5000 CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

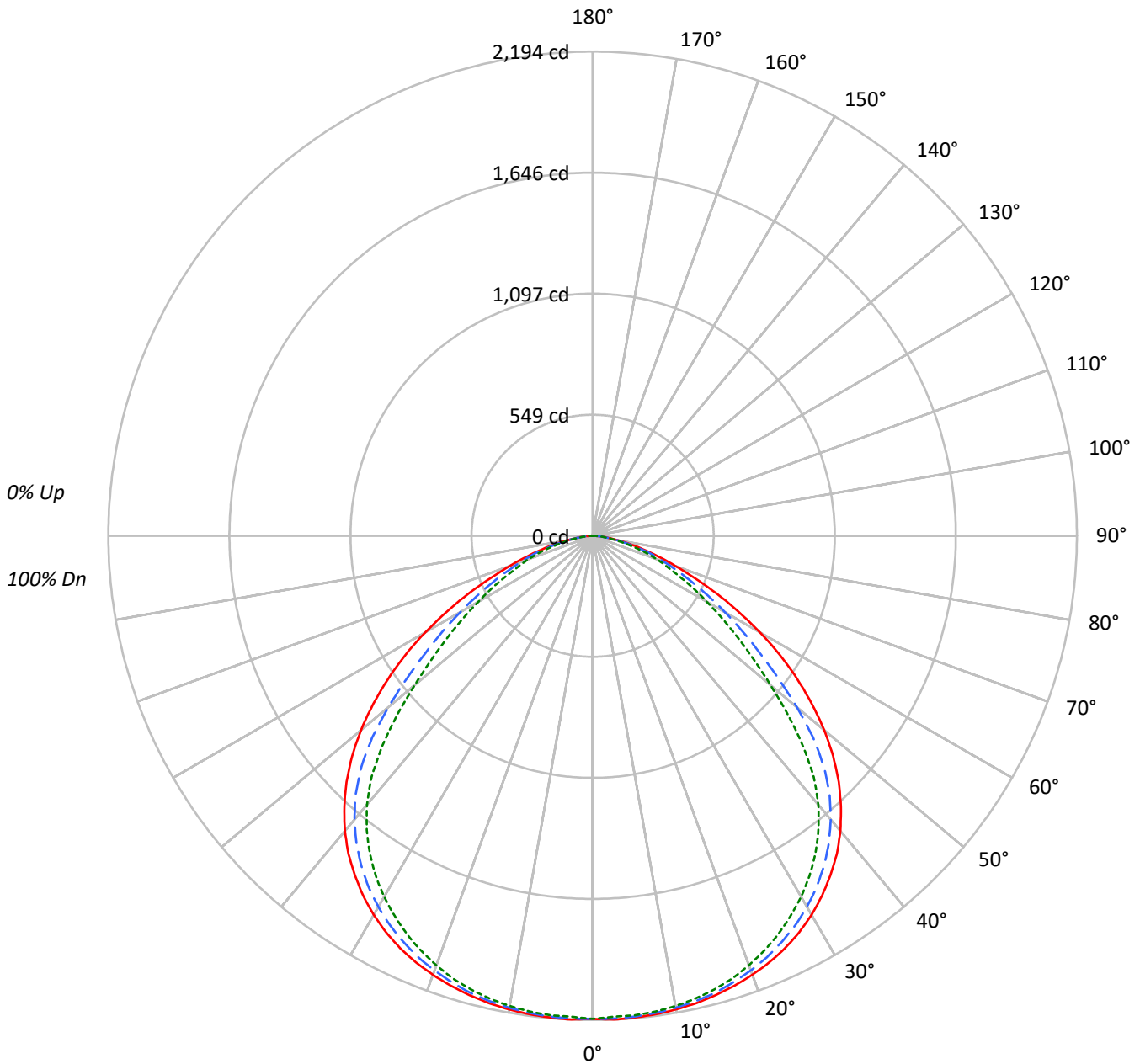
Lumens per Lamp: N/A
Luminaire Lumens: 5642.0 lumens
Efficiency: N/A
Efficacy: 104.3 lumens/watt
Spacing Criteria (0/90/45): 1.34 / 1.28 / 1.38
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 54.1
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

TEST NUMBER: P412338

CATALOG NUMBER: 14PD-55-PB1-L850

Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				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	50	30	10	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	110	106	102	99	107	104	100	97	99	96	94	95	93	91	92	90	88	86				86
2	101	93	87	82	98	92	86	81	88	83	79	85	81	77	82	79	76	74				74
3	93	83	75	69	90	81	74	69	78	72	67	76	71	66	73	69	65	63				63
4	85	74	66	59	83	73	65	59	70	63	58	68	62	57	66	61	57	55				55
5	78	66	58	51	76	65	57	51	63	56	51	61	55	50	59	54	50	48				48
6	73	60	51	45	71	59	51	45	57	50	45	56	49	44	54	48	44	42				42
7	67	54	46	40	66	54	46	40	52	45	40	51	44	39	49	44	39	37				37
8	63	50	42	36	61	49	41	36	48	41	36	47	40	35	45	40	35	33				33
9	59	46	38	32	57	45	37	32	44	37	32	43	37	32	42	36	32	30				30
10	55	42	34	29	54	42	34	29	41	34	29	40	33	29	39	33	29	27				27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5890	5890	5890
5°	5920	5907	5892
10°	5955	5935	5912
15°	6004	5972	5928
20°	6062	6003	5930
25°	6124	6026	5912
30°	6164	6033	5870
35°	6169	6000	5779
40°	6133	5897	5587
45°	6000	5640	5130
50°	5734	5052	4397
55°	5310	4331	3755
60°	4716	3718	3209
65°	3958	3171	2748
70°	3138	2696	2423
75°	2453	2200	1928
80°	1829	1640	1480
85°	1213	1068	982



TEST NUMBER: P412338

CATALOG NUMBER: 14PD-55-PB1-L850

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	208.1	3.7
10°-20°	604.8	10.7
20°-30°	934.0	16.6
30°-40°	1136.8	20.1
40°-50°	1124.9	19.9
50°-60°	847.5	15.0
60°-70°	509.3	9.0
70°-80°	229.5	4.1
80°-90°	47.0	0.8
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°	1747.0	31.0
0°-40°	2883.8	51.1
0°-60°	4856.2	86.1
0°-90°	5642.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5642.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2189	2189	2189	2189	2189	
5°	2192	2183	2187	2185	2181	209
15°	2155	2145	2144	2135	2128	609
25°	2062	2046	2030	2002	1991	951
35°	1878	1857	1826	1782	1759	1174
45°	1576	1549	1482	1391	1348	1211
55°	1132	1052	923	833	800	1008
65°	622	564	498	446	432	618
75°	236	224	212	192	185	257
85°	39	40	35	33	32	51
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2188.8	2188.8	2188.8	2188.8	2188.8
2.5°	2194.4	2185.0	2189.7	2188.8	2181.3
5°	2191.6	2183.1	2186.9	2185.0	2181.3
7.5°	2186.9	2178.5	2181.3	2178.5	2174.7
10°	2179.4	2170.0	2171.9	2166.3	2163.5
12.5°	2169.1	2157.9	2159.7	2152.3	2148.5
15°	2155.1	2144.8	2143.8	2135.4	2127.9
17.5°	2137.3	2127.0	2121.4	2112.0	2103.6
20°	2116.7	2103.6	2096.1	2079.2	2070.8
22.5°	2092.3	2078.3	2066.1	2042.7	2034.3
25°	2062.4	2046.5	2029.6	2002.5	1991.2
27.5°	2025.9	2009.0	1989.4	1959.4	1942.5
30°	1983.7	1966.0	1941.6	1907.0	1889.2
32.5°	1934.1	1914.5	1888.3	1847.1	1828.3
35°	1878.0	1857.4	1826.5	1781.5	1759.1
37.5°	1817.1	1793.7	1757.2	1702.9	1680.4
40°	1746.0	1722.6	1678.6	1615.8	1590.6
42.5°	1665.4	1642.0	1588.7	1513.8	1482.9
45°	1576.5	1549.4	1482.0	1391.1	1348.1
47.5°	1477.3	1442.6	1354.6	1243.2	1200.2
50°	1369.6	1323.7	1206.7	1092.5	1050.4
52.5°	1252.6	1194.6	1059.7	957.7	917.4
55°	1131.8	1052.3	923.1	833.2	800.4
57.5°	1006.4	910.9	803.2	724.6	693.7
60°	876.3	783.6	690.9	618.8	596.3
62.5°	743.3	667.5	590.7	524.3	512.1
65°	621.6	563.6	498.0	445.6	431.6
67.5°	499.0	466.2	415.7	380.1	364.2
70°	398.8	377.3	342.6	313.6	308.0
72.5°	311.7	297.7	284.6	259.3	249.0
75°	235.9	223.7	211.6	191.9	185.4
77.5°	170.4	165.7	155.4	142.3	139.5
80°	118.0	118.0	105.8	98.3	95.5
82.5°	73.0	79.6	66.5	61.8	59.0
85°	39.3	40.3	34.6	32.8	31.8
87.5°	15.0	16.9	15.9	13.1	13.1
90°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC





— 0°-180° - - 45°-225° - - - - 90°-270°







(END OF REPORT)