

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: P412343

Luminaire Tested: **14PD-55-PB1-L950**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412343
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-L950
Description: 5500 LUMEN 1X4 PERCEIVE LED TROFFER WITH BEVEL PATTERN OPTICS AND 90 CRI, 5000 CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

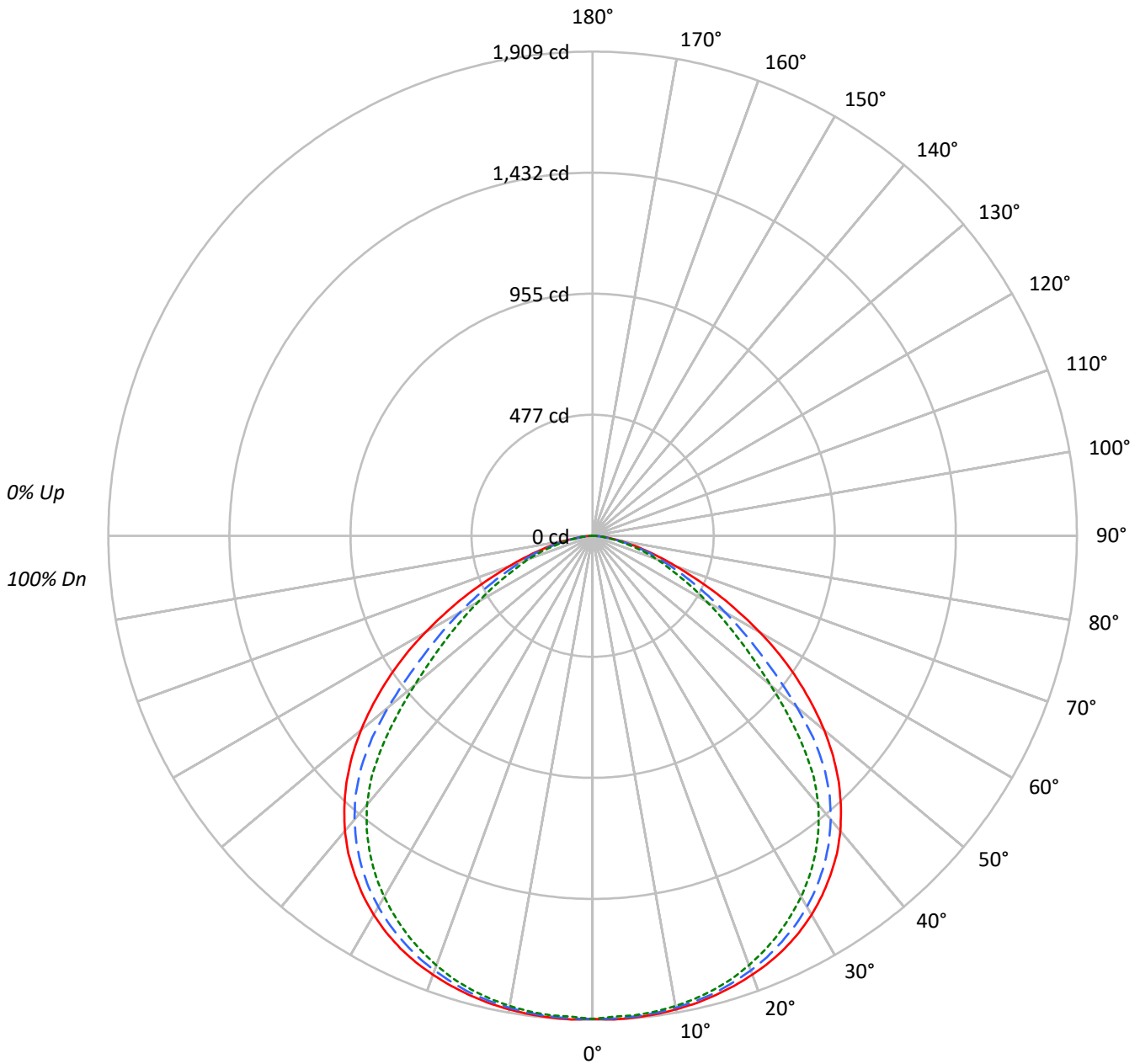
Lumens per Lamp: N/A
Luminaire Lumens: 4909.0 lumens
Efficiency: N/A
Efficacy: 90.7 lumens/watt
Spacing Criteria (0/90/45): 1.34 / 1.28 / 1.38
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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

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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	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°	5125	5125	5125
5°	5151	5140	5127
10°	5182	5164	5144
15°	5224	5197	5158
20°	5274	5223	5160
25°	5328	5243	5144
30°	5363	5249	5107
35°	5368	5221	5028
40°	5336	5130	4861
45°	5220	4907	4464
50°	4989	4395	3826
55°	4620	3768	3267
60°	4103	3235	2793
65°	3444	2759	2391
70°	2730	2345	2109
75°	2135	1914	1677
80°	1590	1426	1288
85°	1056	929	855



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	181.1	3.7
10°-20°	526.3	10.7
20°-30°	812.7	16.6
30°-40°	989.1	20.1
40°-50°	978.7	19.9
50°-60°	737.4	15.0
60°-70°	443.1	9.0
70°-80°	199.7	4.1
80°-90°	40.9	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°	1520.0	31.0
0°-40°	2509.1	51.1
0°-60°	4225.3	86.1
0°-90°	4909.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4909.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1904	1904	1904	1904	1904	
5°	1907	1900	1903	1901	1898	182
15°	1875	1866	1865	1858	1852	530
25°	1794	1781	1766	1742	1732	827
35°	1634	1616	1589	1550	1530	1022
45°	1372	1348	1289	1210	1173	1054
55°	985	916	803	725	696	877
65°	541	490	433	388	376	537
75°	205	195	184	167	161	224
85°	34	35	30	28	28	44
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1904.4	1904.4	1904.4	1904.4	1904.4
2.5°	1909.3	1901.1	1905.2	1904.4	1897.9
5°	1906.8	1899.5	1902.8	1901.1	1897.9
7.5°	1902.8	1895.4	1897.9	1895.4	1892.2
10°	1896.3	1888.1	1889.7	1884.9	1882.4
12.5°	1887.3	1877.5	1879.2	1872.6	1869.4
15°	1875.1	1866.1	1865.3	1858.0	1851.5
17.5°	1859.6	1850.6	1845.8	1837.6	1830.3
20°	1841.7	1830.3	1823.8	1809.1	1801.8
22.5°	1820.5	1808.3	1797.7	1777.3	1770.0
25°	1794.4	1780.6	1765.9	1742.3	1732.5
27.5°	1762.7	1748.0	1730.9	1704.8	1690.2
30°	1726.0	1710.5	1689.4	1659.2	1643.7
32.5°	1682.8	1665.7	1642.9	1607.1	1590.8
35°	1634.0	1616.1	1589.2	1550.1	1530.5
37.5°	1581.0	1560.7	1528.9	1481.7	1462.1
40°	1519.1	1498.8	1460.5	1405.9	1383.9
42.5°	1449.1	1428.7	1382.3	1317.1	1290.2
45°	1371.7	1348.1	1289.4	1210.4	1172.9
47.5°	1285.3	1255.2	1178.6	1081.7	1044.2
50°	1191.7	1151.8	1049.9	950.6	913.9
52.5°	1089.9	1039.4	922.1	833.3	798.3
55°	984.8	915.5	803.1	724.9	696.4
57.5°	875.6	792.6	698.9	630.5	603.6
60°	762.4	681.8	601.1	538.4	518.9
62.5°	646.7	580.8	514.0	456.1	445.6
65°	540.9	490.4	433.3	387.7	375.5
67.5°	434.2	405.6	361.7	330.7	316.9
70°	347.0	328.3	298.1	272.9	268.0
72.5°	271.2	259.0	247.6	225.6	216.7
75°	205.3	194.7	184.1	167.0	161.3
77.5°	148.2	144.2	135.2	123.8	121.4
80°	102.6	102.6	92.0	85.5	83.1
82.5°	63.5	69.2	57.8	53.8	51.3
85°	34.2	35.0	30.1	28.5	27.7
87.5°	13.0	14.7	13.8	11.4	11.4
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)