

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: P412336

Luminaire Tested: **14PD-55-PB1-L835**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412336
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-L835
Description: 5500 LUMEN 1X4 PERCEIVE LED TROFFER WITH BEVEL PATTERN OPTICS AND 80 CRI, 3500 CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

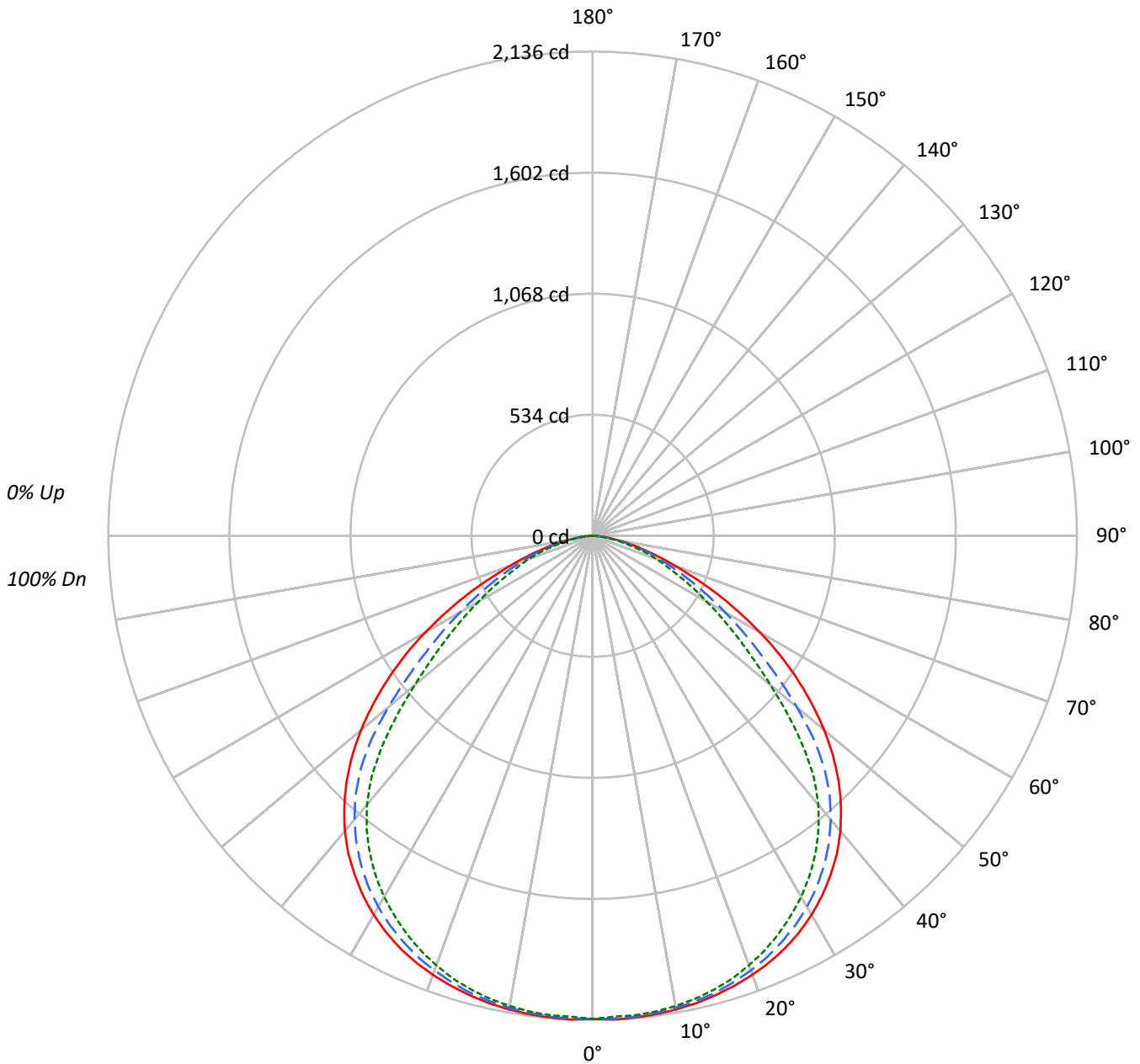
Lumens per Lamp: N/A
Luminaire Lumens: 5493.0 lumens
Efficiency: N/A
Efficacy: 101.5 lumens/watt
Spacing Criteria (0/90/45): 1.34 / 1.28 / 1.38
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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°	5734	5734	5734
5°	5764	5751	5737
10°	5798	5778	5755
15°	5845	5815	5772
20°	5901	5844	5773
25°	5962	5867	5756
30°	6001	5874	5715
35°	6006	5842	5626
40°	5971	5741	5440
45°	5841	5491	4995
50°	5582	4919	4281
55°	5170	4216	3656
60°	4591	3620	3125
65°	3854	3088	2676
70°	3055	2625	2360
75°	2388	2142	1877
80°	1779	1596	1441
85°	1183	1041	957



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	202.6	3.7
10°-20°	588.9	10.7
20°-30°	909.4	16.6
30°-40°	1106.7	20.1
40°-50°	1095.2	19.9
50°-60°	825.2	15.0
60°-70°	495.8	9.0
70°-80°	223.5	4.1
80°-90°	45.8	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°	1700.9	31.0
0°-40°	2807.6	51.1
0°-60°	4727.9	86.1
0°-90°	5493.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5493.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2131	2131	2131	2131	2131	
5°	2134	2126	2129	2127	2124	203
15°	2098	2088	2087	2079	2072	593
25°	2008	1992	1976	1950	1939	926
35°	1828	1808	1778	1734	1713	1143
45°	1535	1508	1443	1354	1312	1179
55°	1102	1024	899	811	779	982
65°	605	549	485	434	420	601
75°	230	218	206	187	180	250
85°	38	39	34	32	31	49
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2131.0	2131.0	2131.0	2131.0	2131.0
2.5°	2136.4	2127.3	2131.9	2131.0	2123.7
5°	2133.7	2125.5	2129.1	2127.3	2123.7
7.5°	2129.1	2120.9	2123.7	2120.9	2117.3
10°	2121.8	2112.7	2114.6	2109.1	2106.3
12.5°	2111.8	2100.9	2102.7	2095.4	2091.8
15°	2098.1	2088.1	2087.2	2079.0	2071.7
17.5°	2080.8	2070.8	2065.3	2056.2	2048.0
20°	2060.8	2048.0	2040.7	2024.3	2016.1
22.5°	2037.1	2023.4	2011.6	1988.8	1980.6
25°	2007.9	1992.4	1976.0	1949.6	1938.6
27.5°	1972.4	1956.0	1936.8	1907.7	1891.2
30°	1931.4	1914.0	1890.3	1856.6	1839.3
32.5°	1883.0	1863.9	1838.4	1798.3	1780.1
35°	1828.4	1808.3	1778.2	1734.5	1712.6
37.5°	1769.1	1746.3	1710.8	1657.9	1636.0
40°	1699.8	1677.1	1634.2	1573.2	1548.5
42.5°	1621.5	1598.7	1546.7	1473.8	1443.7
45°	1534.9	1508.4	1442.8	1354.4	1312.5
47.5°	1438.3	1404.5	1318.9	1210.4	1168.5
50°	1333.4	1288.8	1174.9	1063.7	1022.6
52.5°	1219.5	1163.0	1031.8	932.4	893.2
55°	1101.9	1024.5	898.7	811.2	779.3
57.5°	979.8	886.8	782.0	705.5	675.4
60°	853.1	762.9	672.6	602.5	580.6
62.5°	723.7	649.9	575.1	510.4	498.6
65°	605.2	548.7	484.9	433.8	420.2
67.5°	485.8	453.9	404.7	370.0	354.6
70°	388.3	367.3	333.6	305.3	299.9
72.5°	303.5	289.8	277.1	252.5	242.4
75°	229.7	217.8	206.0	186.8	180.5
77.5°	165.9	161.3	151.3	138.5	135.8
80°	114.8	114.8	103.0	95.7	93.0
82.5°	71.1	77.5	64.7	60.2	57.4
85°	38.3	39.2	33.7	31.9	31.0
87.5°	14.6	16.4	15.5	12.8	12.8
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)