

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: P412339

Luminaire Tested: **14PD-55-PB1-L927**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412339
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-L927
Description: 5500 LUMEN 1X4 PERCEIVE LED TROFFER WITH BEVEL PATTERN OPTICS AND 90 CRI, 2700 CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

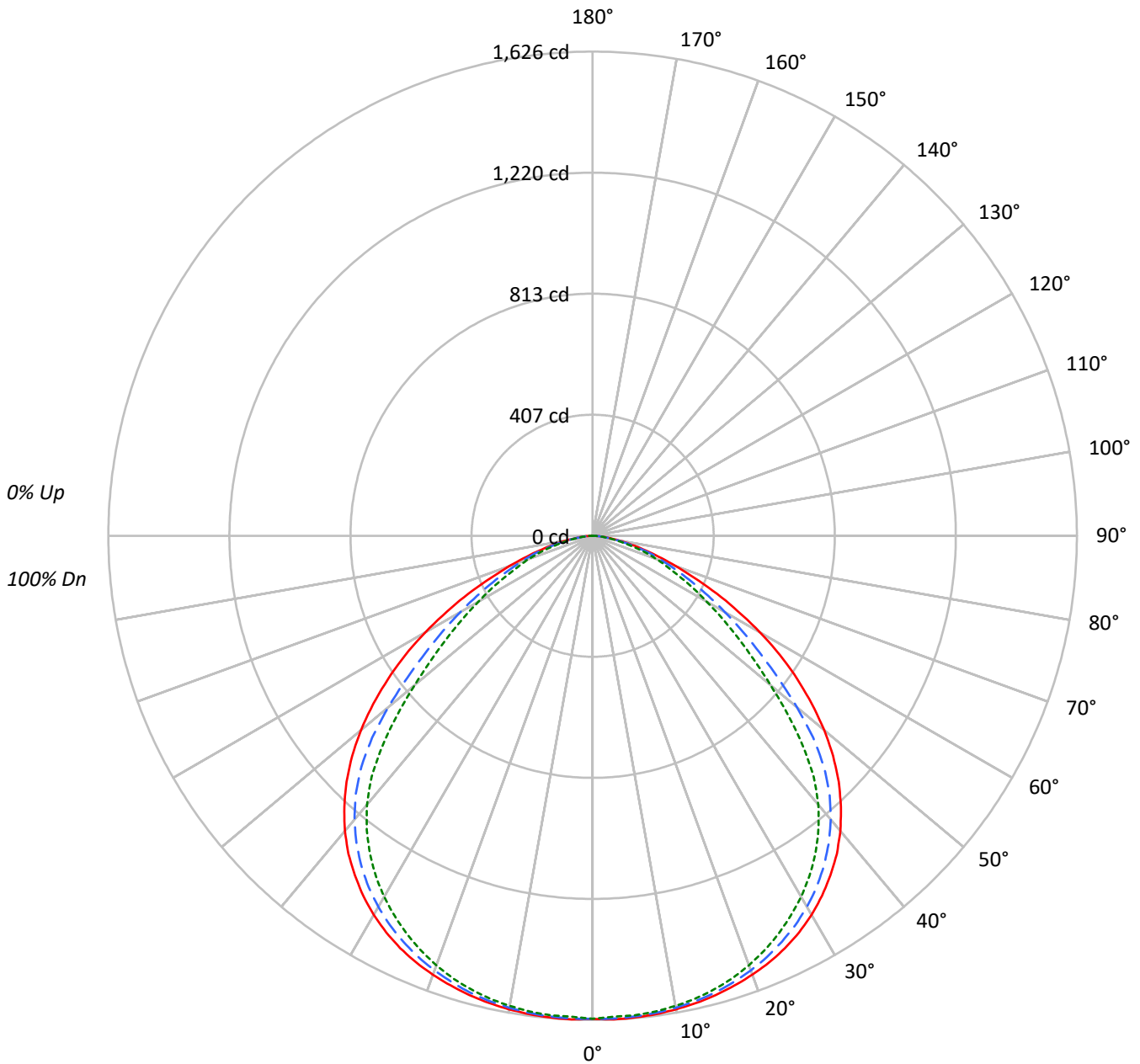
Lumens per Lamp: N/A
Luminaire Lumens: 4181.0 lumens
Efficiency: N/A
Efficacy: 77.3 lumens/watt
Spacing Criteria (0/90/45): 1.34 / 1.28 / 1.38
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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

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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°	4365	4365	4365
5°	4387	4378	4366
10°	4413	4398	4381
15°	4449	4426	4393
20°	4492	4448	4395
25°	4538	4466	4381
30°	4568	4471	4350
35°	4572	4446	4282
40°	4545	4370	4141
45°	4446	4179	3802
50°	4249	3743	3259
55°	3935	3209	2783
60°	3495	2756	2378
65°	2933	2350	2036
70°	2325	1998	1795
75°	1817	1630	1429
80°	1354	1215	1097
85°	898	794	729



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.2	3.7
10°-20°	448.2	10.7
20°-30°	692.2	16.6
30°-40°	842.4	20.1
40°-50°	833.6	19.9
50°-60°	628.1	15.0
60°-70°	377.4	9.0
70°-80°	170.1	4.1
80°-90°	34.8	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°	1294.6	31.0
0°-40°	2137.0	51.1
0°-60°	3598.7	86.1
0°-90°	4181.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4181.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1622	1622	1622	1622	1622	
5°	1624	1618	1621	1619	1616	155
15°	1597	1589	1589	1582	1577	451
25°	1528	1516	1504	1484	1476	704
35°	1392	1376	1354	1320	1304	870
45°	1168	1148	1098	1031	999	898
55°	839	780	684	617	593	747
65°	461	418	369	330	320	458
75°	175	166	157	142	137	191
85°	29	30	26	24	24	38
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1622.0	1622.0	1622.0	1622.0	1622.0
2.5°	1626.1	1619.2	1622.7	1622.0	1616.4
5°	1624.1	1617.8	1620.6	1619.2	1616.4
7.5°	1620.6	1614.3	1616.4	1614.3	1611.6
10°	1615.0	1608.1	1609.5	1605.3	1603.2
12.5°	1607.4	1599.1	1600.5	1594.9	1592.1
15°	1597.0	1589.4	1588.7	1582.4	1576.9
17.5°	1583.8	1576.2	1572.0	1565.1	1558.8
20°	1568.6	1558.8	1553.3	1540.8	1534.6
22.5°	1550.5	1540.1	1531.1	1513.8	1507.5
25°	1528.3	1516.5	1504.0	1483.9	1475.6
27.5°	1501.3	1488.8	1474.2	1452.0	1439.5
30°	1470.1	1456.9	1438.8	1413.2	1400.0
32.5°	1433.3	1418.7	1399.3	1368.8	1354.9
35°	1391.7	1376.4	1353.5	1320.2	1303.6
37.5°	1346.6	1329.2	1302.2	1261.9	1245.3
40°	1293.8	1276.5	1243.9	1197.4	1178.7
42.5°	1234.2	1216.8	1177.3	1121.8	1098.9
45°	1168.3	1148.2	1098.2	1030.9	999.0
47.5°	1094.7	1069.1	1003.9	921.3	889.4
50°	1015.0	981.0	894.2	809.6	778.4
52.5°	928.2	885.2	785.3	709.7	679.9
55°	838.7	779.8	684.0	617.4	593.2
57.5°	745.8	675.0	595.2	537.0	514.1
60°	649.3	580.7	512.0	458.6	441.9
62.5°	550.8	494.6	437.8	388.5	379.5
65°	460.6	417.6	369.1	330.2	319.8
67.5°	369.8	345.5	308.0	281.7	269.9
70°	295.5	279.6	253.9	232.4	228.2
72.5°	231.0	220.6	210.9	192.2	184.5
75°	174.8	165.8	156.8	142.2	137.4
77.5°	126.3	122.8	115.2	105.4	103.4
80°	87.4	87.4	78.4	72.8	70.8
82.5°	54.1	59.0	49.3	45.8	43.7
85°	29.1	29.8	25.7	24.3	23.6
87.5°	11.1	12.5	11.8	9.7	9.7
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)