

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: P412537

Luminaire Tested: **24PD-55-PB1-L927**

Issue Date: 9/15/2020



**Test Information**

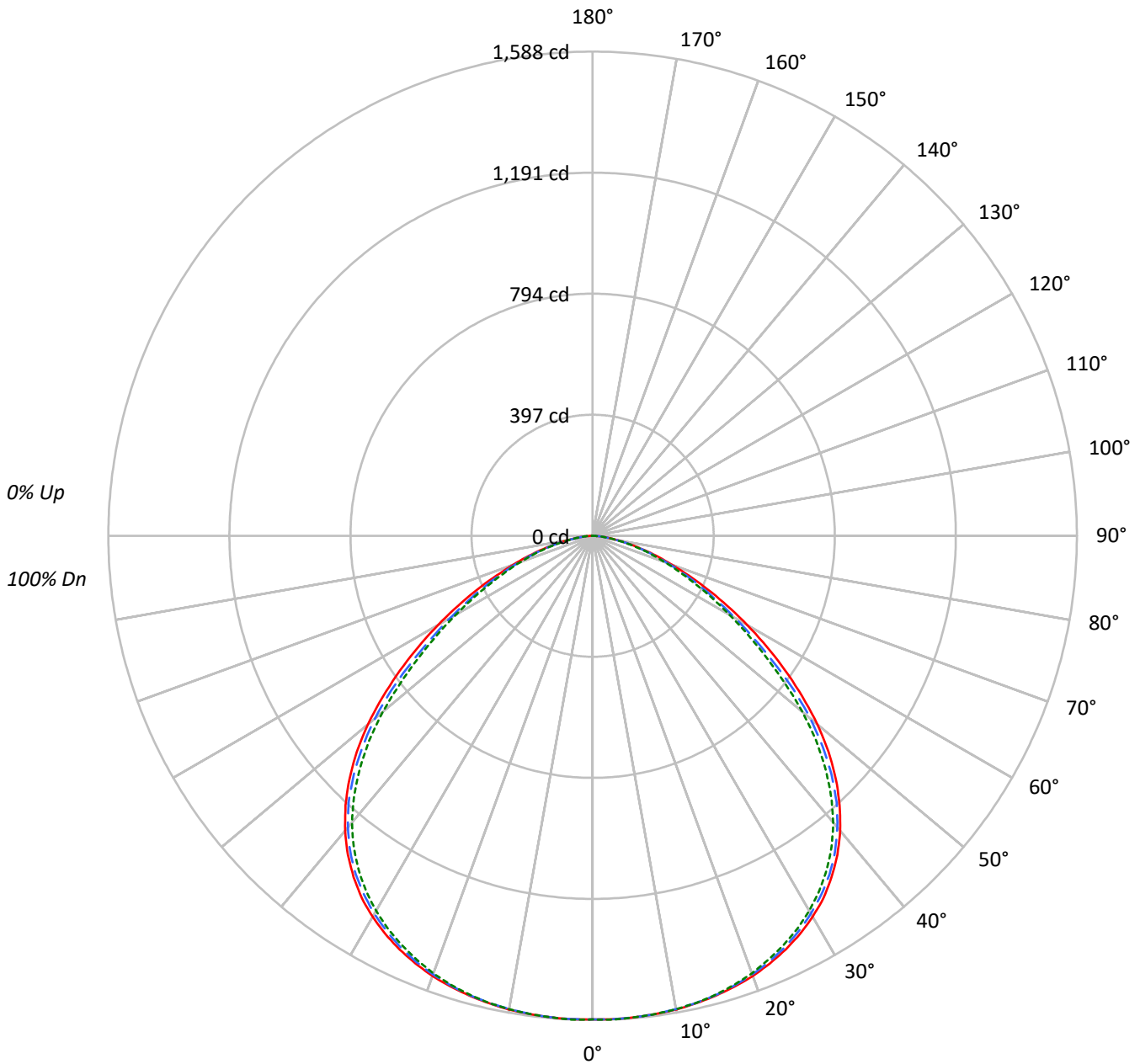
Test Method: LM-79-08  
Report Number: P412537  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-45)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 24PD-55-PB1-L927  
Description: 5500 LUMEN 2X4 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: 4221.0 lumens  
Efficiency: N/A  
Efficacy: 102.5 lumens/watt  
Spacing Criteria (0/90/45): 1.34 / 1.32 / 1.41  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 41.2  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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									
RC	80									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																			
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86																			
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73																			
3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	73	69	65	63																			
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	65	60	56	54																			
5	78	66	57	51	76	65	57	51	63	56	50	61	55	50	59	54	49	47																			
6	72	60	51	45	70	59	51	45	57	50	44	55	49	44	54	48	43	41																			
7	67	54	46	40	65	53	45	40	52	45	39	50	44	39	49	43	39	37																			
8	63	49	41	35	61	49	41	35	47	40	35	46	40	35	45	39	35	33																			
9	58	45	37	32	57	45	37	32	44	37	32	43	36	32	42	36	31	30																			
10	55	42	34	29	53	41	34	29	40	33	29	39	33	29	39	33	29	27																			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	2134	2134	2134
5°	2141	2141	2141
10°	2156	2153	2154
15°	2175	2172	2170
20°	2200	2192	2186
25°	2223	2211	2199
30°	2242	2224	2206
35°	2244	2225	2197
40°	2218	2193	2156
45°	2146	2107	2053
50°	2013	1950	1879
55°	1809	1701	1631
60°	1575	1449	1394
65°	1325	1226	1173
70°	1080	1026	984
75°	866	835	800
80°	665	612	596
85°	415	403	403



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	151.0	3.6
10°-20°	440.8	10.4
20°-30°	686.8	16.3
30°-40°	844.8	20.0
40°-50°	848.6	20.1
50°-60°	654.0	15.5
60°-70°	388.3	9.2
70°-80°	172.9	4.1
80°-90°	33.8	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°	1278.6	30.3
0°-40°	2123.4	50.3
0°-60°	3626.1	85.9
0°-90°	4221.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4221.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1586	1586	1586	1586	1586	
5°	1586	1586	1586	1584	1586	151
15°	1562	1562	1559	1557	1558	442
25°	1497	1497	1490	1483	1481	690
35°	1366	1364	1355	1343	1338	853
45°	1128	1125	1107	1089	1079	866
55°	771	756	725	703	695	690
65°	416	398	385	370	368	416
75°	166	163	161	155	154	180
85°	27	26	26	25	26	36
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1586.3	1586.3	1586.3	1586.3	<i>1586.3</i>
2.5°	<i>1587.1</i>	<i>1586.7</i>	<i>1586.7</i>	<i>1585.0</i>	<i>1588.4</i>
5°	1585.5	1585.9	1585.5	1583.8	<i>1585.5</i>
7.5°	1582.1	1582.5	1581.7	1580.0	<i>1581.7</i>
10°	1577.9	1577.9	1576.2	1575.4	<i>1576.6</i>
12.5°	1570.7	1570.7	1569.1	1567.8	<i>1569.1</i>
15°	1561.5	1561.5	1559.4	1556.9	<i>1558.1</i>
17.5°	1550.1	1550.1	1546.8	1543.4	<i>1544.3</i>
20°	1536.3	1535.9	1531.2	1526.6	<i>1527.0</i>
22.5°	1518.6	1518.2	1512.3	1506.8	<i>1505.2</i>
25°	1497.2	1496.8	1489.6	1482.9	<i>1481.2</i>
27.5°	1472.4	1470.7	1462.7	1455.1	<i>1453.4</i>
30°	1442.9	1441.7	1431.2	1423.6	<i>1420.2</i>
32.5°	1408.9	1405.5	1395.8	1386.6	<i>1382.0</i>
35°	1366.4	1364.3	1354.6	1343.3	<i>1337.8</i>
37.5°	1318.5	1316.4	1305.9	1293.3	<i>1287.0</i>
40°	1263.0	1261.3	1248.3	1235.2	<i>1227.3</i>
42.5°	1199.1	1197.8	1183.9	1165.9	<i>1157.5</i>
45°	1128.0	1125.1	1107.4	1088.9	<i>1078.8</i>
47.5°	1049.0	1043.9	1022.5	1004.8	<i>993.9</i>
50°	961.5	954.8	931.7	909.0	<i>897.6</i>
52.5°	866.9	855.2	831.2	805.1	<i>794.2</i>
55°	771.1	756.4	725.3	703.4	<i>695.4</i>
57.5°	677.3	655.9	626.4	610.9	<i>602.9</i>
60°	585.2	561.7	538.6	523.4	<i>518.0</i>
62.5°	497.4	477.6	457.9	442.7	<i>439.4</i>
65°	416.2	398.2	385.1	370.4	<i>368.3</i>
67.5°	340.6	332.1	320.4	307.8	<i>306.1</i>
70°	274.5	271.2	260.7	253.1	<i>250.2</i>
72.5°	219.0	215.7	208.1	202.7	<i>201.8</i>
75°	166.5	163.1	160.6	155.1	<i>153.9</i>
77.5°	118.6	119.0	116.9	113.9	<i>114.8</i>
80°	85.8	80.7	79.0	77.4	<i>76.9</i>
82.5°	52.6	49.6	48.4	47.9	<i>48.8</i>
85°	26.9	25.6	26.1	24.8	<i>26.1</i>
87.5°	9.2	9.2	9.7	9.2	<i>10.1</i>
90°	0.0	0.0	0.0	0.0	<i>0.0</i>



Report Generated By 670246072 / DESKTOP-MV3F9LC







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







(END OF REPORT)