

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: P412536

Luminaire Tested: **24PD-55-PB1-L850**

Issue Date: 9/15/2020



**Test Information**

Test Method: LM-79-08  
Report Number: P412536  
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-L850  
Description: 5500 LUMEN 2X4 PERCEIVE LED TROFFER WITH BEVEL PATTERN OPTICS AND 80 CRI, 5000 CCT LEDS  
Light Source: -  
Ballast/Driver: -

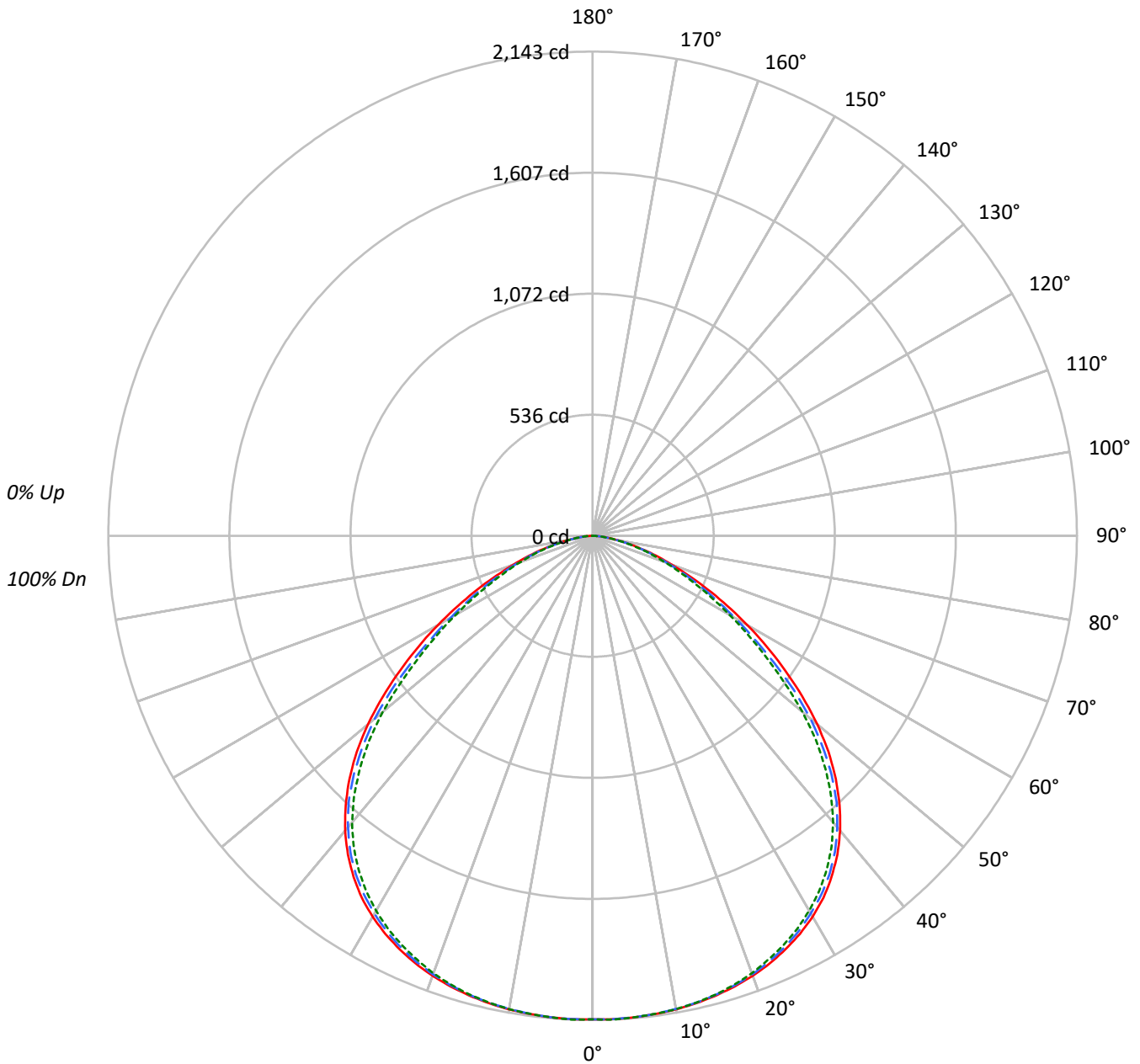
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5695.0 lumens  
Efficiency: N/A  
Efficacy: 138.2 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°	2880	2880	2880
5°	2889	2889	2889
10°	2909	2905	2906
15°	2935	2931	2928
20°	2968	2958	2950
25°	2999	2984	2967
30°	3025	3000	2977
35°	3028	3002	2965
40°	2993	2958	2908
45°	2896	2843	2770
50°	2716	2631	2535
55°	2440	2295	2201
60°	2125	1956	1881
65°	1788	1654	1582
70°	1457	1384	1328
75°	1168	1127	1079
80°	896	826	804
85°	560	543	543



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	203.8	3.6
10°-20°	594.8	10.4
20°-30°	926.6	16.3
30°-40°	1139.9	20.0
40°-50°	1144.9	20.1
50°-60°	882.4	15.5
60°-70°	523.9	9.2
70°-80°	233.2	4.1
80°-90°	45.5	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°	1725.1	30.3
0°-40°	2865.0	50.3
0°-60°	4892.3	85.9
0°-90°	5695.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5695.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2140	2140	2140	2140	2140	
5°	2139	2140	2139	2137	2139	204
15°	2107	2107	2104	2100	2102	596
25°	2020	2019	2010	2001	1998	932
35°	1844	1841	1828	1812	1805	1151
45°	1522	1518	1494	1469	1456	1168
55°	1040	1020	978	949	938	930
65°	562	537	520	500	497	561
75°	225	220	217	209	208	243
85°	36	35	35	34	35	48
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2140.3	2140.3	2140.3	2140.3	<i>2140.3</i>
2.5°	<i>2141.4</i>	<i>2140.8</i>	<i>2140.8</i>	<i>2138.6</i>	<i>2143.1</i>
5°	2139.1	2139.7	2139.1	2136.9	<i>2139.1</i>
7.5°	2134.6	2135.1	2134.0	2131.7	<i>2134.0</i>
10°	2128.9	2128.9	2126.6	2125.5	<i>2127.2</i>
12.5°	2119.3	2119.3	2117.0	2115.3	<i>2117.0</i>
15°	2106.8	2106.8	2103.9	2100.5	<i>2102.2</i>
17.5°	2091.5	2091.5	2086.9	2082.4	<i>2083.5</i>
20°	2072.8	2072.2	2065.9	2059.7	<i>2060.3</i>
22.5°	2048.9	2048.4	2040.4	2033.0	<i>2030.8</i>
25°	2020.0	2019.4	2009.8	2000.7	<i>1998.4</i>
27.5°	1986.5	1984.3	1973.5	1963.3	<i>1961.0</i>
30°	1946.8	1945.1	1930.9	1920.7	<i>1916.2</i>
32.5°	1900.9	1896.3	1883.3	1870.8	<i>1864.6</i>
35°	1843.6	1840.7	1827.7	1812.4	<i>1805.0</i>
37.5°	1778.9	1776.1	1761.9	1744.9	<i>1736.4</i>
40°	1704.0	1701.8	1684.2	1666.6	<i>1655.8</i>
42.5°	1617.8	1616.1	1597.4	1573.0	<i>1561.7</i>
45°	1521.9	1518.0	1494.2	1469.2	<i>1455.6</i>
47.5°	1415.3	1408.5	1379.6	1355.7	<i>1341.0</i>
50°	1297.3	1288.2	1257.0	1226.4	<i>1211.1</i>
52.5°	1169.7	1153.8	1121.5	1086.3	<i>1071.5</i>
55°	1040.3	1020.5	978.5	949.0	<i>938.2</i>
57.5°	913.8	884.9	845.2	824.2	<i>813.4</i>
60°	789.6	757.9	726.7	706.2	<i>698.9</i>
62.5°	671.1	644.4	617.7	597.3	<i>592.8</i>
65°	561.6	537.2	519.6	499.8	<i>496.9</i>
67.5°	459.5	448.1	432.2	415.2	<i>413.0</i>
70°	370.4	365.9	351.7	341.5	<i>337.5</i>
72.5°	295.5	291.0	280.8	273.4	<i>272.3</i>
75°	224.6	220.1	216.7	209.3	<i>207.6</i>
77.5°	160.0	160.5	157.7	153.7	<i>154.9</i>
80°	115.7	108.9	106.6	104.4	<i>103.8</i>
82.5°	70.9	66.9	65.2	64.7	<i>65.8</i>
85°	36.3	34.6	35.2	33.5	<i>35.2</i>
87.5°	12.5	12.5	13.0	12.5	<i>13.6</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)