

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: P412418

Luminaire Tested: **22PD-55-PB1-L840**

Issue Date: 9/15/2020



**Test Information**

Test Method: LM-79-08  
Report Number: P412418  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 22PD-55-PB1-L840  
Description: 5500 LUMEN 2X2 PERCEIVE LED TROFFER WITH BEVEL PATTERN OPTICS AND 80 CRI, 4000 CCT LEDS  
Light Source: -  
Ballast/Driver: -

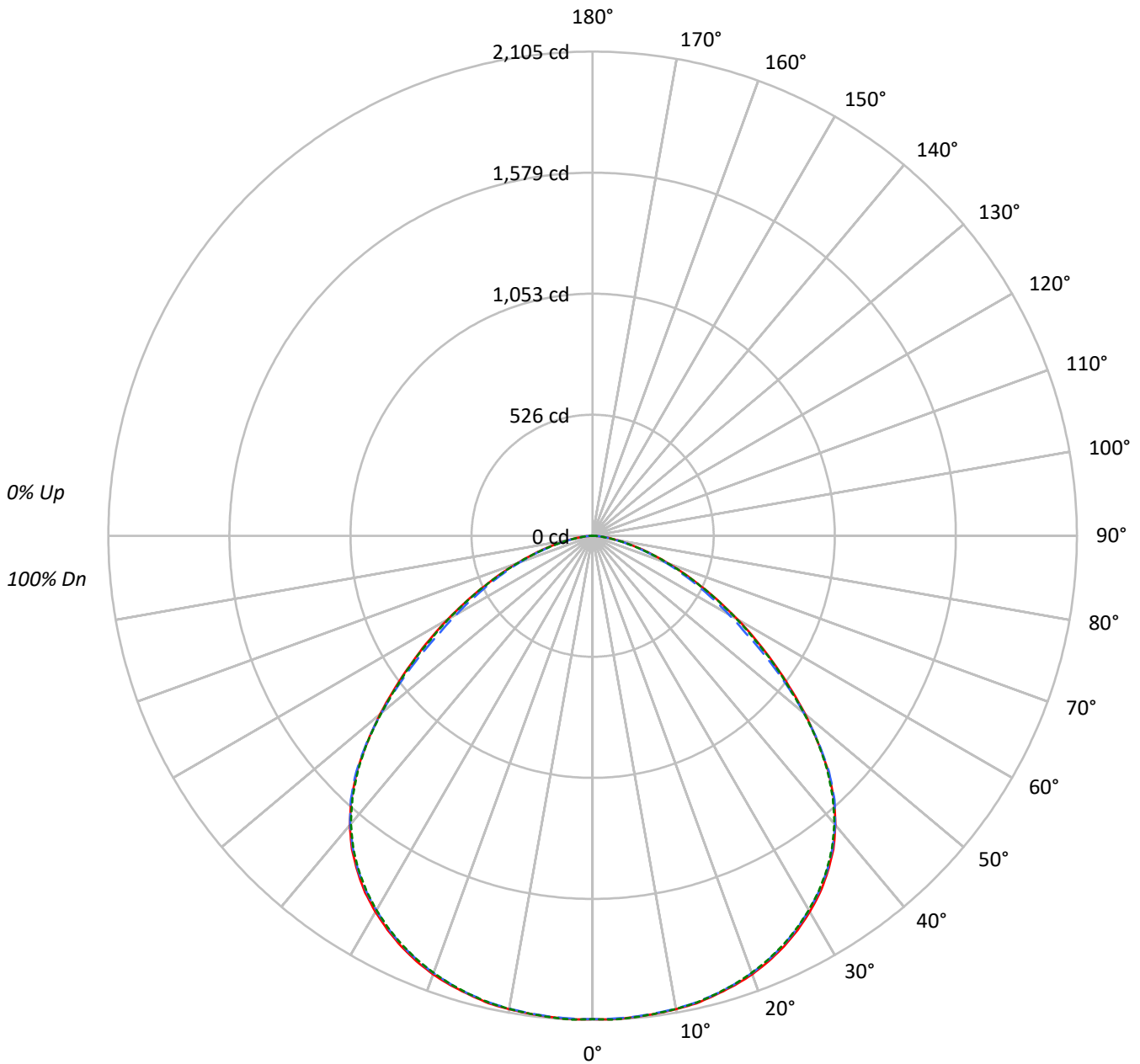
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5518.0 lumens  
Efficiency: N/A  
Efficacy: 121.5 lumens/watt  
Spacing Criteria (0/90/45): 1.33 / 1.32 / 1.4  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 45.4  
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	76	73																			
3	92	83	75	69	90	81	74	68	78	72	67	76	70	66	73	69	65	63																			
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	66	61	56	54																			
5	78	66	58	51	76	65	57	51	63	56	50	61	55	50	59	54	49	47																			
6	72	60	51	45	71	59	51	45	57	50	44	55	49	44	54	48	44	42																			
7	67	54	46	40	66	53	45	40	52	45	39	51	44	39	49	43	39	37																			
8	63	50	41	36	61	49	41	36	48	40	35	46	40	35	45	39	35	33																			
9	59	46	38	32	57	45	37	32	44	37	32	43	36	32	42	36	32	30																			
10	55	42	34	29	54	41	34	29	41	34	29	40	33	29	39	33	29	27																			

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

	0°	45°	90°
0°	5656	5656	5656
5°	5674	5669	5676
10°	5711	5704	5708
15°	5758	5749	5749
20°	5810	5794	5790
25°	5847	5830	5824
30°	5867	5842	5838
35°	5854	5837	5826
40°	5767	5760	5742
45°	5513	5530	5488
50°	5047	5020	5014
55°	4485	4327	4455
60°	3911	3673	3886
65°	3315	3137	3298
70°	2741	2629	2715
75°	2217	2074	2128
80°	1601	1551	1540
85°	1044	1044	1003



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	200.0	3.6
10°-20°	583.3	10.6
20°-30°	905.1	16.4
30°-40°	1109.9	20.1
40°-50°	1109.5	20.1
50°-60°	840.4	15.2
60°-70°	504.0	9.1
70°-80°	221.9	4.0
80°-90°	44.0	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°	1688.3	30.6
0°-40°	2798.2	50.7
0°-60°	4748.0	86.0
0°-90°	5518.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5518.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2102	2102	2102	2102	2102	
5°	2100	2098	2099	2098	2101	200
15°	2067	2065	2064	2062	2064	584
25°	1969	1965	1963	1960	1961	908
35°	1782	1781	1777	1776	1774	1113
45°	1449	1451	1453	1449	1442	1109
55°	956	935	922	935	950	857
65°	521	502	493	501	518	521
75°	213	209	200	203	205	227
85°	34	35	34	32	32	45
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2101.8	2101.8	2101.8	2101.8	<i>2101.8</i>
2.5°	<i>2103.8</i>	<i>2100.5</i>	<i>2101.2</i>	<i>2101.2</i>	<i>2105.1</i>
5°	2100.5	2097.9	2098.6	2097.9	<i>2101.2</i>
7.5°	2096.0	2093.4	2094.0	2093.4	<i>2095.3</i>
10°	2090.1	2087.5	2087.5	2086.2	<i>2088.8</i>
12.5°	2082.3	2079.1	2077.8	2077.1	<i>2079.1</i>
15°	2066.7	2064.8	2063.5	2062.2	<i>2063.5</i>
17.5°	2049.8	2046.6	2045.3	2042.7	<i>2045.3</i>
20°	2029.0	2024.5	2023.2	2021.2	<i>2021.9</i>
22.5°	2001.7	1997.8	1995.9	1992.6	<i>1993.9</i>
25°	1969.2	1965.3	1963.4	1960.1	<i>1961.4</i>
27.5°	1931.5	1928.9	1924.4	1921.8	<i>1922.4</i>
30°	1888.0	1885.4	1880.2	1878.9	<i>1878.9</i>
32.5°	1839.9	1836.6	1832.1	1830.8	<i>1830.1</i>
35°	1782.0	1781.4	1776.8	1775.5	<i>1773.6</i>
37.5°	1719.0	1717.7	1712.5	1711.2	<i>1709.3</i>
40°	1641.7	1640.4	1639.7	1637.1	<i>1634.5</i>
42.5°	1552.0	1553.9	1555.2	1550.0	<i>1544.8</i>
45°	1448.6	1450.6	1453.2	1449.3	<i>1442.1</i>
47.5°	1327.8	1335.6	1331.7	1334.3	<i>1327.1</i>
50°	1205.6	1205.6	1199.1	1201.7	<i>1197.8</i>
52.5°	1077.5	1067.1	1059.3	1064.5	<i>1069.7</i>
55°	956.0	935.2	922.2	934.6	<i>949.5</i>
57.5°	839.7	815.0	790.9	810.4	<i>828.6</i>
60°	726.6	698.0	682.4	696.7	<i>722.0</i>
62.5°	619.4	598.6	583.0	594.0	<i>615.5</i>
65°	520.6	502.4	492.6	501.1	<i>518.0</i>
67.5°	430.2	417.9	408.1	415.3	<i>428.3</i>
70°	348.4	345.1	334.1	337.3	<i>345.1</i>
72.5°	273.6	273.0	263.2	265.8	<i>270.4</i>
75°	213.2	208.6	199.5	202.8	<i>204.7</i>
77.5°	150.8	152.7	144.3	146.2	<i>146.2</i>
80°	103.3	106.6	100.1	98.8	<i>99.4</i>
82.5°	65.6	65.6	65.0	64.3	<i>62.4</i>
85°	33.8	35.1	33.8	32.5	<i>32.5</i>
87.5°	13.0	13.0	13.0	12.3	<i>11.7</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)