

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: P412337

Luminaire Tested: **14PD-55-PB1-L840**

Issue Date: 9/15/2020



**Test Information**

Test Method: LM-79-08  
Report Number: P412337  
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-L840  
Description: 5500 LUMEN 1X4 PERCEIVE LED TROFFER WITH BEVEL PATTERN OPTICS AND 80 CRI, 4000 CCT LEDS  
Light Source: -  
Ballast/Driver: -

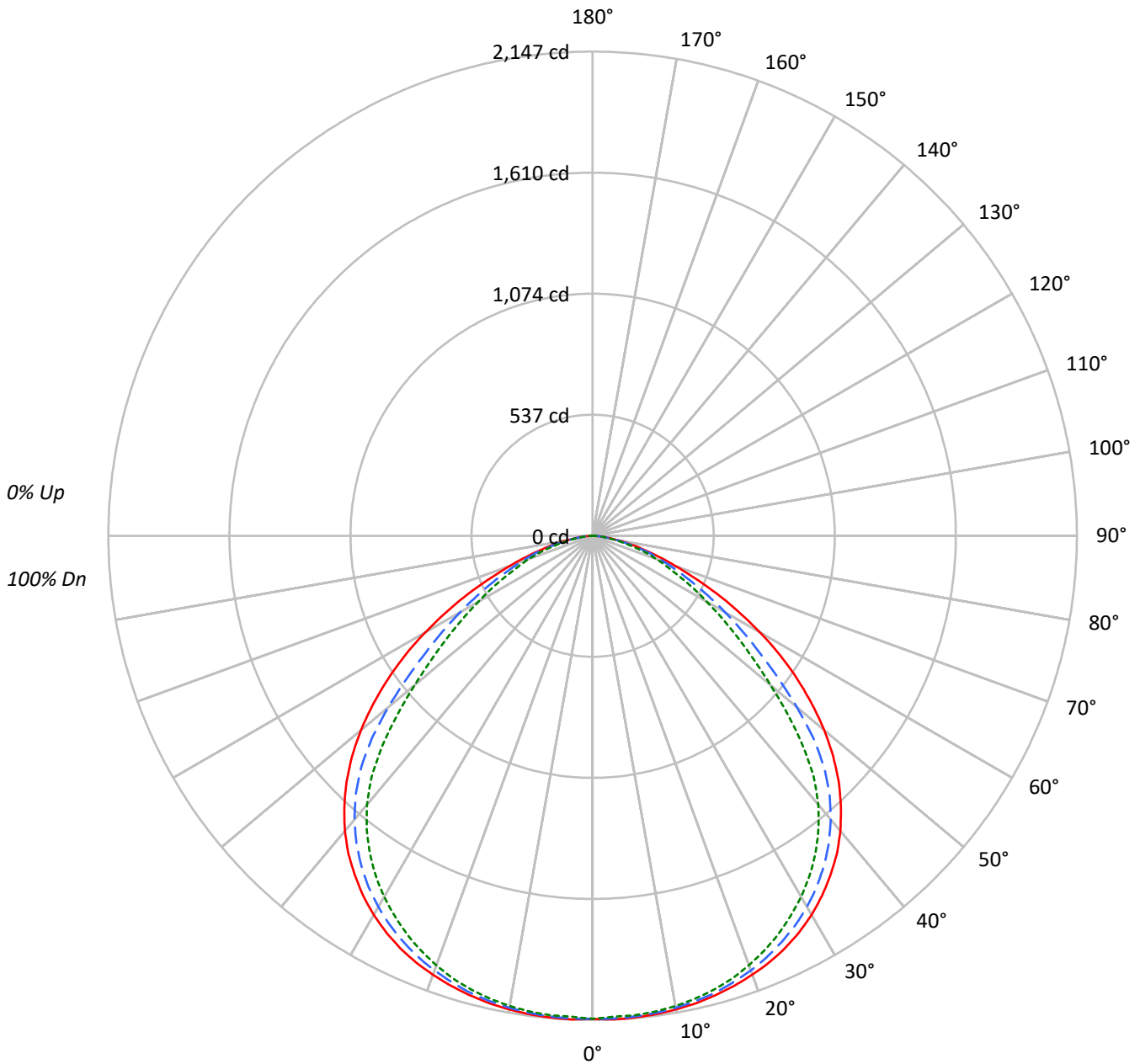
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5521.0 lumens  
Efficiency: N/A  
Efficacy: 102.1 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<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	99	107	104	100	97	99	96	94	95	93	91	92	90	88	86																			
2	101	93	87	82	98	92	86	81	88	83	79	85	81	77	82	79	76	74																			
3	93	83	75	69	90	81	74	69	78	72	67	76	71	66	73	69	65	63																			
4	85	74	66	59	83	73	65	59	70	63	58	68	62	57	66	61	57	55																			
5	78	66	58	51	76	65	57	51	63	56	51	61	55	50	59	54	50	48																			
6	73	60	51	45	71	59	51	45	57	50	45	56	49	44	54	48	44	42																			
7	67	54	46	40	66	54	46	40	52	45	40	51	44	39	49	44	39	37																			
8	63	50	42	36	61	49	41	36	48	41	36	47	40	35	45	40	35	33																			
9	59	46	38	32	57	45	37	32	44	37	32	43	37	32	42	36	32	30																			
10	55	42	34	29	54	42	34	29	41	34	29	40	33	29	39	33	29	27																			

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

	0°	45°	90°
0°	5764	5764	5764
5°	5793	5781	5766
10°	5828	5807	5785
15°	5875	5844	5801
20°	5932	5874	5803
25°	5992	5897	5785
30°	6032	5904	5744
35°	6037	5871	5655
40°	6002	5770	5467
45°	5871	5519	5020
50°	5611	4943	4303
55°	5196	4238	3675
60°	4615	3639	3141
65°	3873	3103	2689
70°	3071	2638	2371
75°	2401	2152	1886
80°	1788	1604	1447
85°	1189	1047	960



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	203.7	3.7
10°-20°	591.9	10.7
20°-30°	914.0	16.6
30°-40°	1112.4	20.1
40°-50°	1100.8	19.9
50°-60°	829.4	15.0
60°-70°	498.4	9.0
70°-80°	224.6	4.1
80°-90°	46.0	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°	1709.5	31.0
0°-40°	2821.9	51.1
0°-60°	4752.0	86.1
0°-90°	5521.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5521.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2142	2142	2142	2142	2142	
5°	2145	2136	2140	2138	2134	204
15°	2109	2099	2098	2090	2082	596
25°	2018	2003	1986	1960	1948	930
35°	1838	1818	1787	1743	1721	1149
45°	1543	1516	1450	1361	1319	1185
55°	1108	1030	903	815	783	987
65°	608	552	487	436	422	604
75°	231	219	207	188	181	252
85°	38	39	34	32	31	50
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2141.8	2141.8	2141.8	2141.8	2141.8
2.5°	2147.3	2138.2	2142.7	2141.8	2134.5
5°	2144.6	2136.3	2140.0	2138.2	2134.5
7.5°	2140.0	2131.7	2134.5	2131.7	2128.1
10°	2132.7	2123.5	2125.3	2119.8	2117.1
12.5°	2122.6	2111.6	2113.4	2106.1	2102.4
15°	2108.8	2098.8	2097.8	2089.6	2082.3
17.5°	2091.4	2081.4	2075.9	2066.7	2058.5
20°	2071.3	2058.5	2051.1	2034.6	2026.4
22.5°	2047.5	2033.7	2021.8	1998.9	1990.7
25°	2018.1	2002.6	1986.1	1959.5	1948.5
27.5°	1982.4	1965.9	1946.7	1917.4	1900.9
30°	1941.2	1923.8	1900.0	1866.1	1848.7
32.5°	1892.6	1873.4	1847.8	1807.4	1789.1
35°	1837.7	1817.5	1787.3	1743.3	1721.3
37.5°	1778.1	1755.2	1719.5	1666.4	1644.4
40°	1708.5	1685.6	1642.6	1581.2	1556.4
42.5°	1629.7	1606.8	1554.6	1481.3	1451.1
45°	1542.7	1516.1	1450.2	1361.3	1319.2
47.5°	1445.6	1411.7	1325.6	1216.6	1174.4
50°	1340.2	1295.4	1180.8	1069.1	1027.9
52.5°	1225.7	1168.9	1037.0	937.2	897.8
55°	1107.6	1029.7	903.3	815.3	783.3
57.5°	984.8	891.4	786.0	709.1	678.8
60°	857.5	766.8	676.1	605.5	583.6
62.5°	727.4	653.2	578.1	513.0	501.1
65°	608.3	551.5	487.4	436.1	422.3
67.5°	488.3	456.2	406.7	371.9	356.4
70°	390.3	369.2	335.3	306.9	301.4
72.5°	305.1	291.3	278.5	253.8	243.7
75°	230.9	218.9	207.0	187.8	181.4
77.5°	166.7	162.1	152.1	139.2	136.5
80°	115.4	115.4	103.5	96.2	93.4
82.5°	71.5	77.9	65.0	60.5	57.7
85°	38.5	39.4	33.9	32.1	31.1
87.5°	14.7	16.5	15.6	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)