

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: P413013

Luminaire Tested: **14PD-50-PC3-L850**

Issue Date: 9/15/2020



**Test Information**

Test Method: LM-79-08  
Report Number: P413013  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-57)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 14PD-50-PC3-L850  
Description: 5000 LUMEN 1X4 PERCEIVE LED TROFFER WITH PYRAMID PATTERN OPTICS AND 80 CRI, 5000 CCT LEDS  
Light Source: -  
Ballast/Driver: -

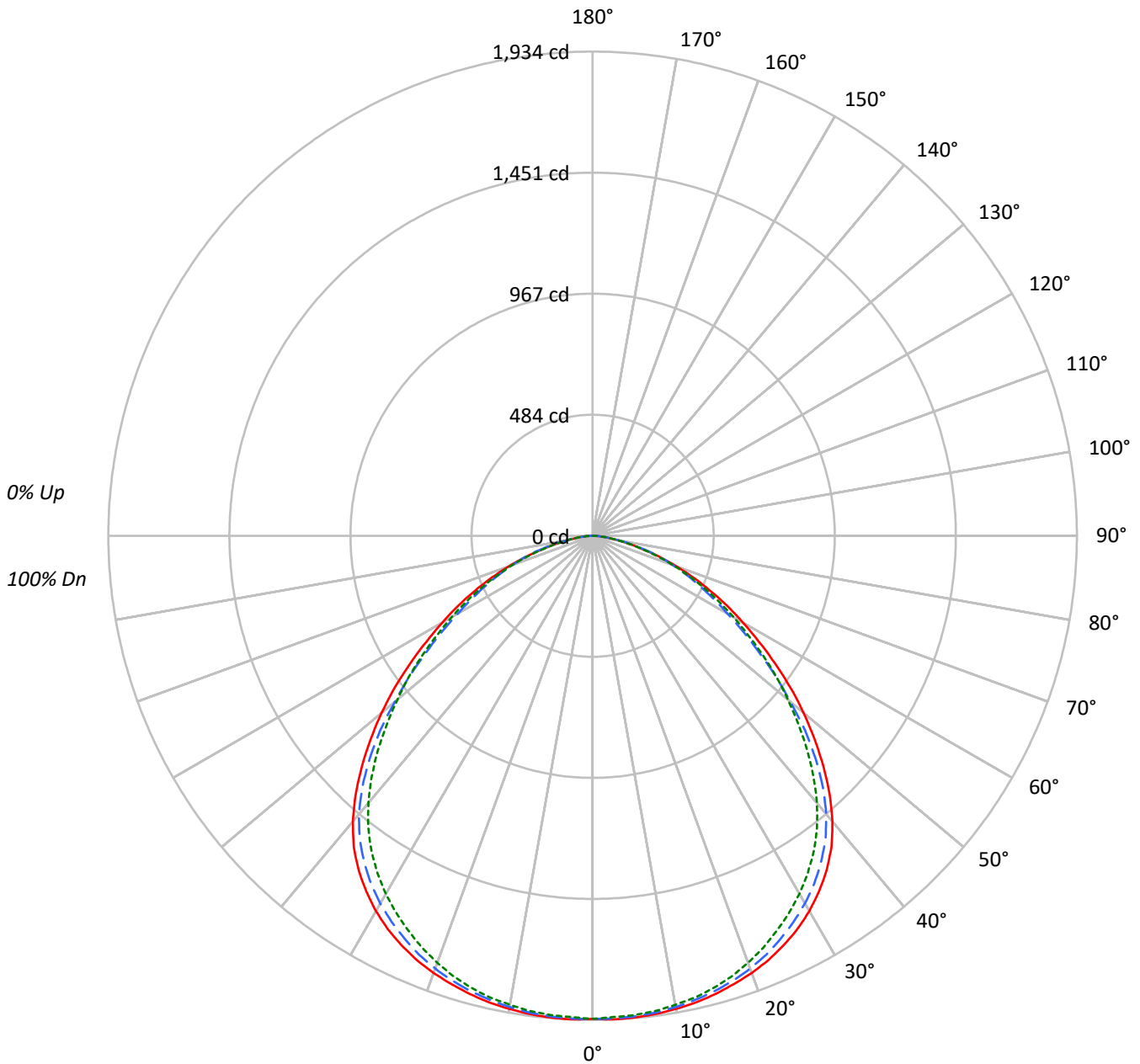
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4986.0 lumens  
Efficiency: N/A  
Efficacy: 102.6 lumens/watt  
Spacing Criteria (0/90/45): 1.32 / 1.27 / 1.37  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 48.6  
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	81	98	91	85	80	88	83	79	84	80	77	81	78	75	73																			
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	62																			
4	85	73	65	59	83	72	64	58	70	63	58	67	62	57	65	60	56	54																			
5	78	66	57	51	76	65	57	51	63	56	50	61	55	50	59	53	49	47																			
6	72	60	51	45	70	59	50	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	36	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	54	41	34	29	40	34	29	40	33	29	39	33	29	27																			

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

	0°	45°	90°
0°	5192	5192	5192
5°	5219	5205	5191
10°	5244	5223	5197
15°	5280	5246	5208
20°	5322	5268	5197
25°	5361	5274	5168
30°	5378	5270	5131
35°	5355	5226	5057
40°	5233	5098	4894
45°	4960	4791	4615
50°	4604	4311	4261
55°	4169	3800	3884
60°	3728	3346	3493
65°	3289	3000	3104
70°	2799	2658	2678
75°	2152	2268	2090
80°	1578	1657	1564
85°	1056	1161	1136



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	183.3	3.7
10°-20°	531.5	10.7
20°-30°	817.4	16.4
30°-40°	989.1	19.8
40°-50°	965.7	19.4
50°-60°	746.2	15.0
60°-70°	479.2	9.6
70°-80°	226.2	4.5
80°-90°	47.4	1.0
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°	1532.2	30.7
0°-40°	2521.4	50.6
0°-60°	4233.2	84.9
0°-90°	4986.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4986.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1929	1929	1929	1929	1929	
5°	1932	1923	1927	1925	1922	184
15°	1895	1886	1883	1876	1870	536
25°	1805	1791	1776	1753	1740	832
35°	1630	1613	1591	1555	1539	1016
45°	1303	1287	1259	1226	1213	1003
55°	889	846	810	811	828	797
65°	516	486	471	466	488	514
75°	207	210	218	200	201	227
85°	34	39	38	37	37	44
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1929.4	1929.4	1929.4	1929.4	1929.4
2.5°	1933.6	1925.9	1930.2	1930.2	1924.2
5°	1931.9	1923.4	1926.8	1925.1	1921.7
7.5°	1926.8	1918.2	1920.8	1919.1	1914.8
10°	1919.1	1909.7	1911.4	1908.0	1902.0
12.5°	1908.8	1900.3	1898.6	1893.4	1889.2
15°	1895.1	1885.7	1883.2	1876.3	1869.5
17.5°	1877.2	1867.8	1863.5	1853.2	1845.5
20°	1858.4	1847.3	1839.6	1824.2	1814.8
22.5°	1834.4	1821.6	1811.3	1790.0	1780.6
25°	1805.4	1790.8	1776.3	1753.2	1740.4
27.5°	1771.1	1755.8	1738.6	1713.0	1698.5
30°	1730.9	1715.6	1695.9	1666.8	1651.4
32.5°	1683.1	1667.7	1647.1	1613.8	1598.4
35°	1630.0	1612.9	1590.7	1554.8	1539.4
37.5°	1566.7	1547.9	1527.4	1488.1	1471.8
40°	1489.8	1473.5	1451.3	1412.0	1393.1
42.5°	1400.8	1386.3	1361.5	1323.9	1305.9
45°	1303.3	1287.1	1258.9	1226.4	1212.7
47.5°	1201.6	1177.6	1150.3	1122.0	1114.3
50°	1099.8	1069.0	1029.7	1015.1	1017.7
52.5°	995.5	956.1	921.9	910.8	923.6
55°	888.6	845.8	809.9	810.7	827.8
57.5°	786.8	742.3	712.4	712.4	734.6
60°	692.7	651.7	621.7	620.9	649.1
62.5°	605.5	563.6	541.3	541.3	567.0
65°	516.5	485.8	471.2	466.1	487.5
67.5°	434.4	413.1	402.8	396.8	410.5
70°	355.8	342.1	337.8	331.0	340.4
72.5°	277.9	274.5	283.1	266.8	271.1
75°	207.0	210.4	218.1	200.1	201.0
77.5°	148.8	155.6	158.2	149.7	149.7
80°	101.8	110.3	106.9	102.6	100.9
82.5°	65.0	69.3	69.3	66.7	65.0
85°	34.2	39.3	37.6	36.8	36.8
87.5°	12.8	18.0	18.0	17.1	16.2
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)