

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: P413011

Luminaire Tested: **14PD-50-PC3-L835**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P413011
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-L835
Description: 5000 LUMEN 1X4 PERCEIVE LED TROFFER WITH PYRAMID PATTERN OPTICS AND 80 CRI, 3500 CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

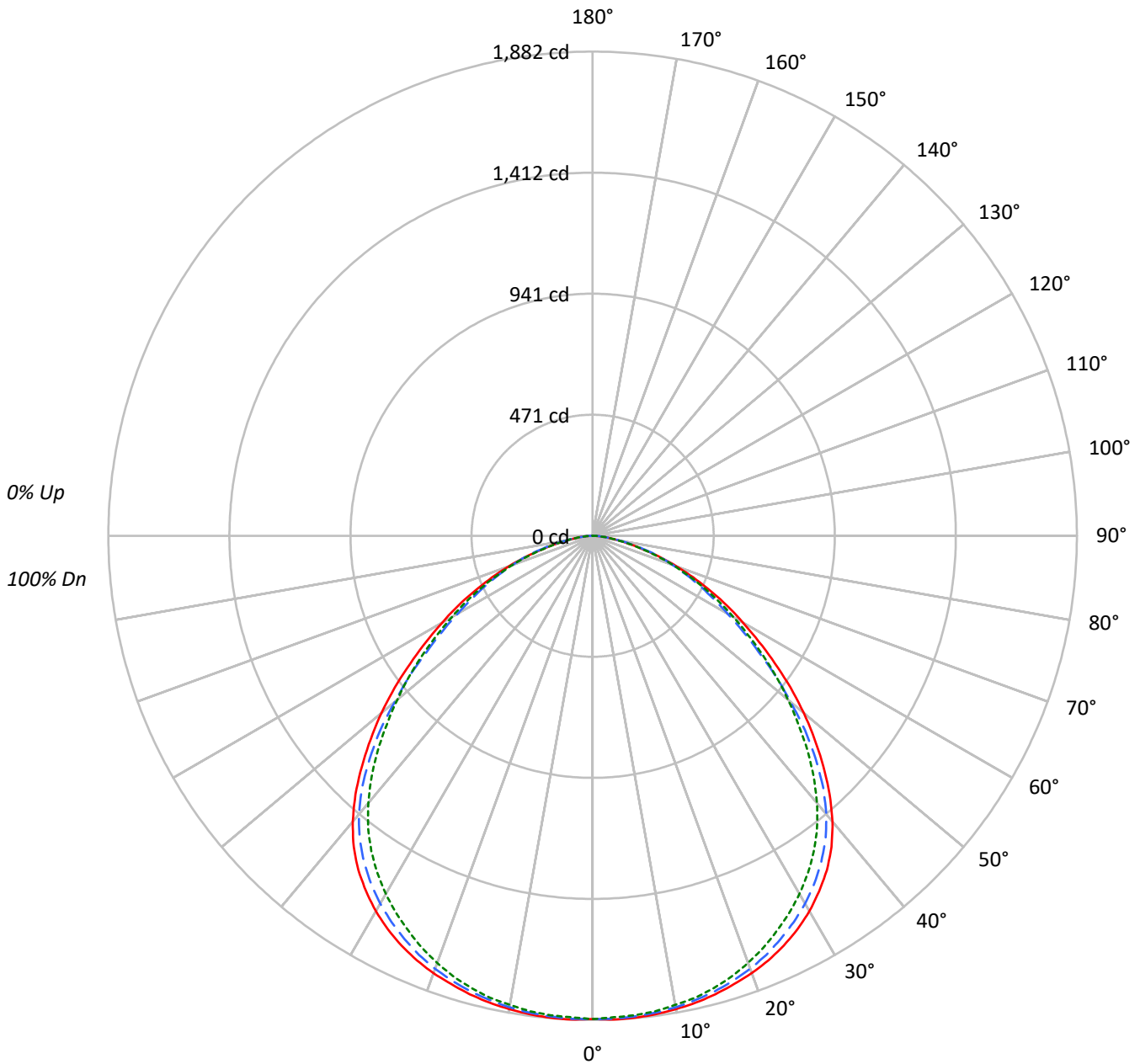
Lumens per Lamp: N/A
Luminaire Lumens: 4854.0 lumens
Efficiency: N/A
Efficacy: 99.9 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 48.6
Input Voltage (V): NR
Input Current (A_{in}): 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°	5054	5054	5054
5°	5081	5067	5054
10°	5105	5085	5059
15°	5140	5107	5070
20°	5181	5129	5059
25°	5219	5135	5031
30°	5236	5130	4996
35°	5213	5087	4923
40°	5095	4963	4764
45°	4829	4664	4493
50°	4482	4196	4148
55°	4058	3699	3781
60°	3630	3258	3401
65°	3202	2921	3022
70°	2725	2588	2607
75°	2095	2207	2035
80°	1536	1613	1522
85°	1028	1130	1105



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	178.5	3.7
10°-20°	517.4	10.7
20°-30°	795.8	16.4
30°-40°	962.9	19.8
40°-50°	940.1	19.4
50°-60°	726.4	15.0
60°-70°	466.5	9.6
70°-80°	220.2	4.5
80°-90°	46.2	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°	1491.7	30.7
0°-40°	2454.6	50.6
0°-60°	4121.2	84.9
0°-90°	4854.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4854.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1878	1878	1878	1878	1878	
5°	1881	1872	1876	1874	1871	179
15°	1845	1836	1833	1827	1820	521
25°	1758	1743	1729	1707	1694	810
35°	1587	1570	1549	1514	1499	989
45°	1269	1253	1226	1194	1181	976
55°	865	823	788	789	806	775
65°	503	473	459	454	475	501
75°	202	205	212	195	196	221
85°	33	38	37	36	36	43
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1878.3	1878.3	1878.3	1878.3	1878.3
2.5°	1882.4	1875.0	1879.1	1879.1	1873.3
5°	1880.8	1872.5	1875.8	1874.1	1870.8
7.5°	1875.8	1867.5	1870.0	1868.3	1864.1
10°	1868.3	1859.1	1860.8	1857.5	1851.6
12.5°	1858.3	1850.0	1848.3	1843.3	1839.1
15°	1845.0	1835.8	1833.3	1826.7	1820.0
17.5°	1827.5	1818.3	1814.2	1804.2	1796.7
20°	1809.2	1798.4	1790.9	1775.9	1766.7
22.5°	1785.9	1773.4	1763.4	1742.6	1733.4
25°	1757.6	1743.4	1729.3	1706.8	1694.3
27.5°	1724.3	1709.3	1692.6	1667.6	1653.5
30°	1685.1	1670.1	1651.0	1622.7	1607.7
32.5°	1638.5	1623.5	1603.5	1571.1	1556.1
35°	1586.9	1570.2	1548.6	1513.6	1498.6
37.5°	1525.3	1507.0	1487.0	1448.7	1432.9
40°	1450.3	1434.5	1412.9	1374.6	1356.3
42.5°	1363.8	1349.6	1325.5	1288.8	1271.3
45°	1268.8	1253.0	1225.5	1193.9	1180.6
47.5°	1169.8	1146.5	1119.8	1092.3	1084.8
50°	1070.7	1040.7	1002.4	988.3	990.8
52.5°	969.1	930.8	897.5	886.7	899.2
55°	865.0	823.4	788.4	789.3	805.9
57.5°	766.0	722.7	693.5	693.5	715.2
60°	674.4	634.4	605.3	604.4	631.9
62.5°	589.5	548.7	527.0	527.0	552.0
65°	502.9	472.9	458.7	453.8	474.6
67.5°	422.9	402.1	392.1	386.3	399.6
70°	346.3	333.0	328.9	322.2	331.4
72.5°	270.6	267.3	275.6	259.8	263.9
75°	201.5	204.8	212.3	194.8	195.7
77.5°	144.9	151.5	154.0	145.7	145.7
80°	99.1	107.4	104.1	99.9	98.2
82.5°	63.3	67.4	67.4	64.9	63.3
85°	33.3	38.3	36.6	35.8	35.8
87.5°	12.5	17.5	17.5	16.7	15.8
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)