

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: P413020

Luminaire Tested: **14PD-55-PC3-L835**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P413020
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-55-PC3-L835
Description: 5500 LUMEN 1X4 PERCEIVE LED TROFFER WITH PYRAMID PATTERN OPTICS AND 80 CRI, 3500 CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

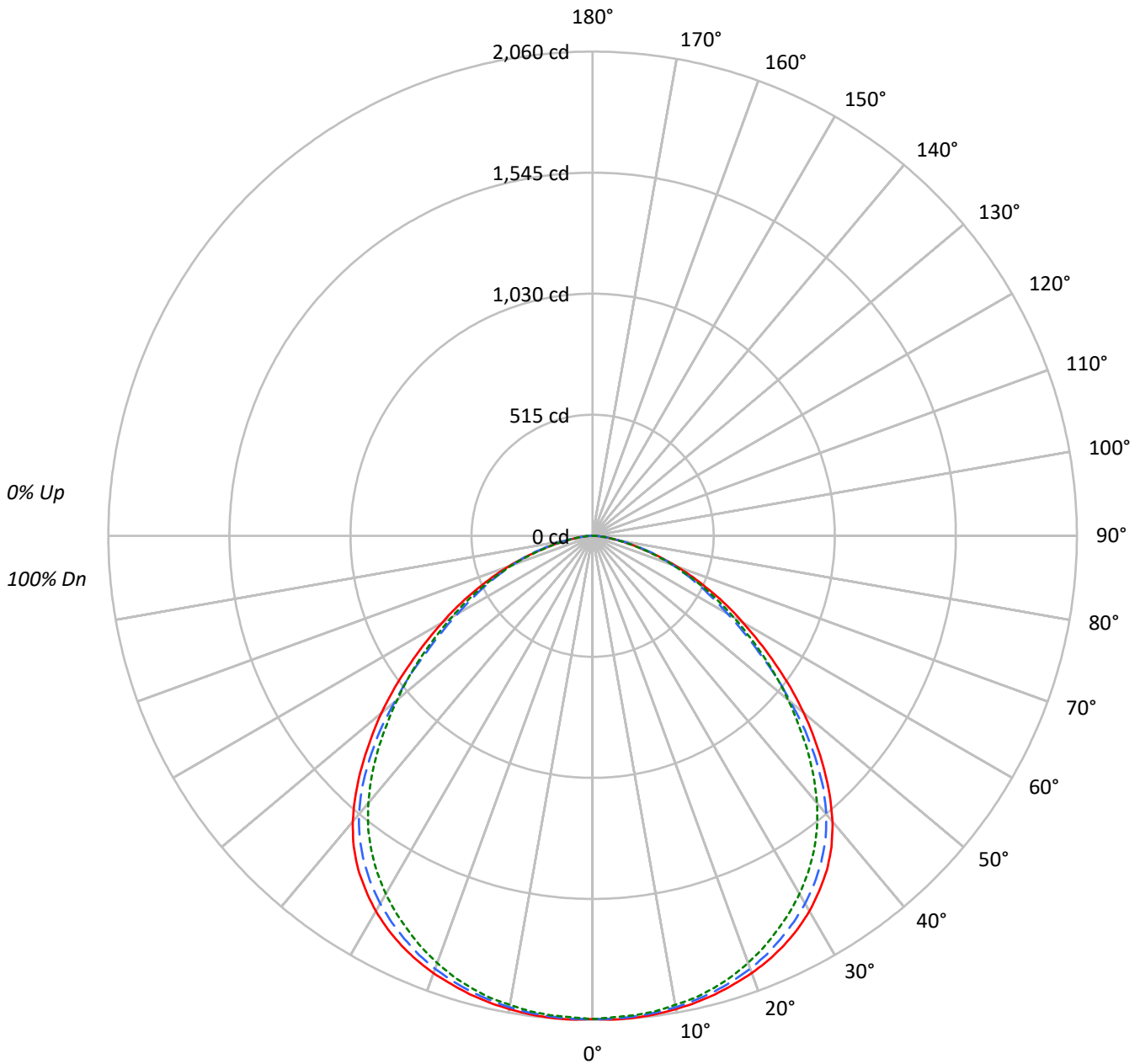
Lumens per Lamp: N/A
Luminaire Lumens: 5313.0 lumens
Efficiency: N/A
Efficacy: 98.2 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 54.1
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°	5532	5532	5532
5°	5561	5546	5531
10°	5588	5566	5538
15°	5626	5590	5550
20°	5671	5613	5538
25°	5712	5620	5506
30°	5731	5615	5468
35°	5706	5568	5389
40°	5577	5433	5215
45°	5285	5105	4918
50°	4906	4593	4540
55°	4442	4049	4138
60°	3973	3566	3723
65°	3505	3197	3307
70°	2983	2832	2854
75°	2293	2416	2227
80°	1680	1765	1666
85°	1127	1238	1210



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	195.3	3.7
10°-20°	566.3	10.7
20°-30°	871.1	16.4
30°-40°	1054.0	19.8
40°-50°	1029.0	19.4
50°-60°	795.1	15.0
60°-70°	510.6	9.6
70°-80°	241.0	4.5
80°-90°	50.5	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°	1632.7	30.7
0°-40°	2686.7	50.6
0°-60°	4510.8	84.9
0°-90°	5313.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5313.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2056	2056	2056	2056	2056	
5°	2059	2050	2053	2051	2048	196
15°	2019	2009	2007	1999	1992	571
25°	1924	1908	1893	1868	1854	887
35°	1737	1719	1695	1657	1640	1083
45°	1389	1372	1341	1307	1292	1068
55°	947	901	863	864	882	849
65°	550	518	502	497	519	548
75°	220	224	232	213	214	242
85°	36	42	40	39	39	47
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2055.9	2055.9	2055.9	2055.9	2055.9
2.5°	2060.4	2052.2	2056.8	2056.8	2050.4
5°	2058.6	2049.5	2053.2	2051.3	2047.7
7.5°	2053.2	2044.0	2046.8	2045.0	2040.4
10°	2045.0	2034.9	2036.8	2033.1	2026.7
12.5°	2034.0	2024.9	2023.1	2017.6	2013.1
15°	2019.4	2009.4	2006.7	1999.4	1992.1
17.5°	2000.3	1990.3	1985.7	1974.8	1966.6
20°	1980.3	1968.4	1960.2	1943.8	1933.8
22.5°	1954.7	1941.1	1930.1	1907.4	1897.3
25°	1923.8	1908.3	1892.8	1868.2	1854.5
27.5°	1887.3	1870.9	1852.7	1825.3	1809.8
30°	1844.5	1828.1	1807.1	1776.1	1759.7
32.5°	1793.4	1777.0	1755.2	1719.6	1703.2
35°	1736.9	1718.7	1695.0	1656.7	1640.3
37.5°	1669.5	1649.5	1627.6	1585.7	1568.3
40°	1587.5	1570.2	1546.5	1504.6	1484.5
42.5°	1492.7	1477.2	1450.8	1410.7	1391.6
45°	1388.8	1371.5	1341.4	1306.8	1292.2
47.5°	1280.4	1254.9	1225.7	1195.6	1187.4
50°	1171.9	1139.1	1097.2	1081.7	1084.4
52.5°	1060.8	1018.8	982.4	970.5	984.2
55°	946.8	901.3	863.0	863.9	882.1
57.5°	838.4	791.0	759.1	759.1	782.8
60°	738.2	694.4	662.5	661.6	691.7
62.5°	645.2	600.5	576.9	576.9	604.2
65°	550.4	517.6	502.1	496.7	519.4
67.5°	462.9	440.2	429.2	422.8	437.4
70°	379.1	364.5	360.0	352.7	362.7
72.5°	296.2	292.5	301.6	284.3	288.9
75°	220.5	224.2	232.4	213.2	214.2
77.5°	158.6	165.9	168.6	159.5	159.5
80°	108.4	117.6	113.9	109.4	107.5
82.5°	69.3	73.8	73.8	71.1	69.3
85°	36.5	41.9	40.1	39.2	39.2
87.5°	13.7	19.1	19.1	18.2	17.3
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)