

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: P412335

Luminaire Tested: **14PD-55-PB1-L830**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412335
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-L830
Description: 5500 LUMEN 1X4 PERCEIVE LED TROFFER WITH BEVEL PATTERN OPTICS AND 80 CRI, 3000 CCT LEDS
Light Source: -
Ballast/Driver: -

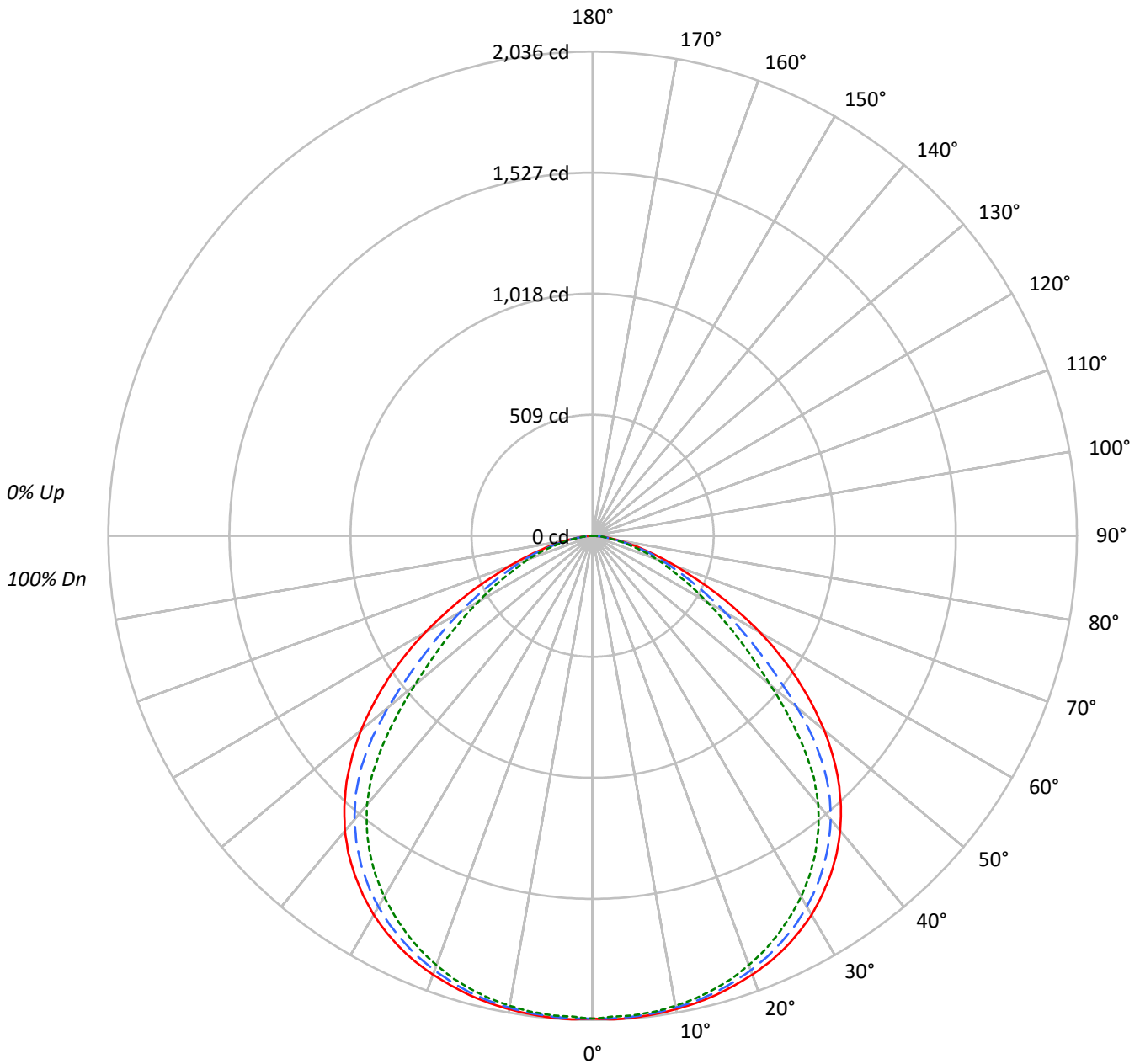
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5234.0 lumens
Efficiency: N/A
Efficacy: 96.7 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_{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				20				
RC	80				70				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°	5464	5464	5464
5°	5492	5480	5466
10°	5525	5505	5484
15°	5570	5541	5499
20°	5623	5568	5501
25°	5681	5590	5485
30°	5718	5597	5446
35°	5723	5566	5361
40°	5690	5470	5183
45°	5566	5232	4759
50°	5319	4687	4079
55°	4926	4017	3483
60°	4375	3449	2977
65°	3672	2942	2550
70°	2911	2501	2248
75°	2276	2041	1788
80°	1695	1520	1373
85°	1127	991	911



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	193.1	3.7
10°-20°	561.1	10.7
20°-30°	866.5	16.6
30°-40°	1054.6	20.1
40°-50°	1043.5	19.9
50°-60°	786.2	15.0
60°-70°	472.4	9.0
70°-80°	213.0	4.1
80°-90°	43.6	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°	1620.7	31.0
0°-40°	2675.2	51.1
0°-60°	4505.0	86.1
0°-90°	5234.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5234.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2030	2030	2030	2030	2030	
5°	2033	2025	2029	2027	2024	194
15°	1999	1990	1989	1981	1974	565
25°	1913	1898	1883	1858	1847	882
35°	1742	1723	1694	1653	1632	1089
45°	1462	1437	1375	1290	1251	1124
55°	1050	976	856	773	742	935
65°	577	523	462	413	400	573
75°	219	208	196	178	172	239
85°	36	37	32	30	30	47
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2030.5	2030.5	2030.5	2030.5	2030.5
2.5°	2035.7	2027.0	2031.4	2030.5	2023.5
5°	2033.1	2025.3	2028.7	2027.0	2023.5
7.5°	2028.7	2020.9	2023.5	2020.9	2017.5
10°	2021.8	2013.1	2014.8	2009.6	2007.0
12.5°	2012.2	2001.8	2003.6	1996.6	1993.1
15°	1999.2	1989.7	1988.8	1981.0	1974.0
17.5°	1982.7	1973.2	1968.0	1959.3	1951.5
20°	1963.6	1951.5	1944.5	1928.9	1921.1
22.5°	1941.0	1928.0	1916.7	1895.0	1887.2
25°	1913.2	1898.5	1882.8	1857.7	1847.2
27.5°	1879.4	1863.7	1845.5	1817.7	1802.1
30°	1840.3	1823.8	1801.2	1769.1	1752.6
32.5°	1794.3	1776.0	1751.7	1713.5	1696.1
35°	1742.2	1723.0	1694.4	1652.7	1631.9
37.5°	1685.7	1664.0	1630.1	1579.7	1558.9
40°	1619.7	1598.0	1557.2	1499.0	1475.5
42.5°	1545.0	1523.3	1473.8	1404.3	1375.7
45°	1462.5	1437.3	1374.8	1290.5	1250.6
47.5°	1370.4	1338.3	1256.7	1153.3	1113.4
50°	1270.6	1228.0	1119.5	1013.5	974.4
52.5°	1162.0	1108.2	983.1	888.4	851.1
55°	1050.0	976.2	856.3	772.9	742.5
57.5°	933.6	845.0	745.1	672.2	643.5
60°	812.9	726.9	640.9	574.1	553.2
62.5°	689.6	619.2	548.0	486.3	475.1
65°	576.7	522.8	462.0	413.4	400.4
67.5°	462.9	432.5	385.6	352.6	337.8
70°	370.0	350.0	317.9	290.9	285.7
72.5°	289.2	276.2	264.0	240.6	231.0
75°	218.9	207.6	196.3	178.0	172.0
77.5°	158.1	153.7	144.2	132.0	129.4
80°	109.4	109.4	98.1	91.2	88.6
82.5°	67.7	73.8	61.7	57.3	54.7
85°	36.5	37.3	32.1	30.4	29.5
87.5°	13.9	15.6	14.8	12.2	12.2
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)