

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: P412342

Luminaire Tested: **14PD-55-PB1-L940**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412342
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-L940
Description: 5500 LUMEN 1X4 PERCEIVE LED TROFFER WITH BEVEL PATTERN OPTICS AND 90 CRI, 4000 CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

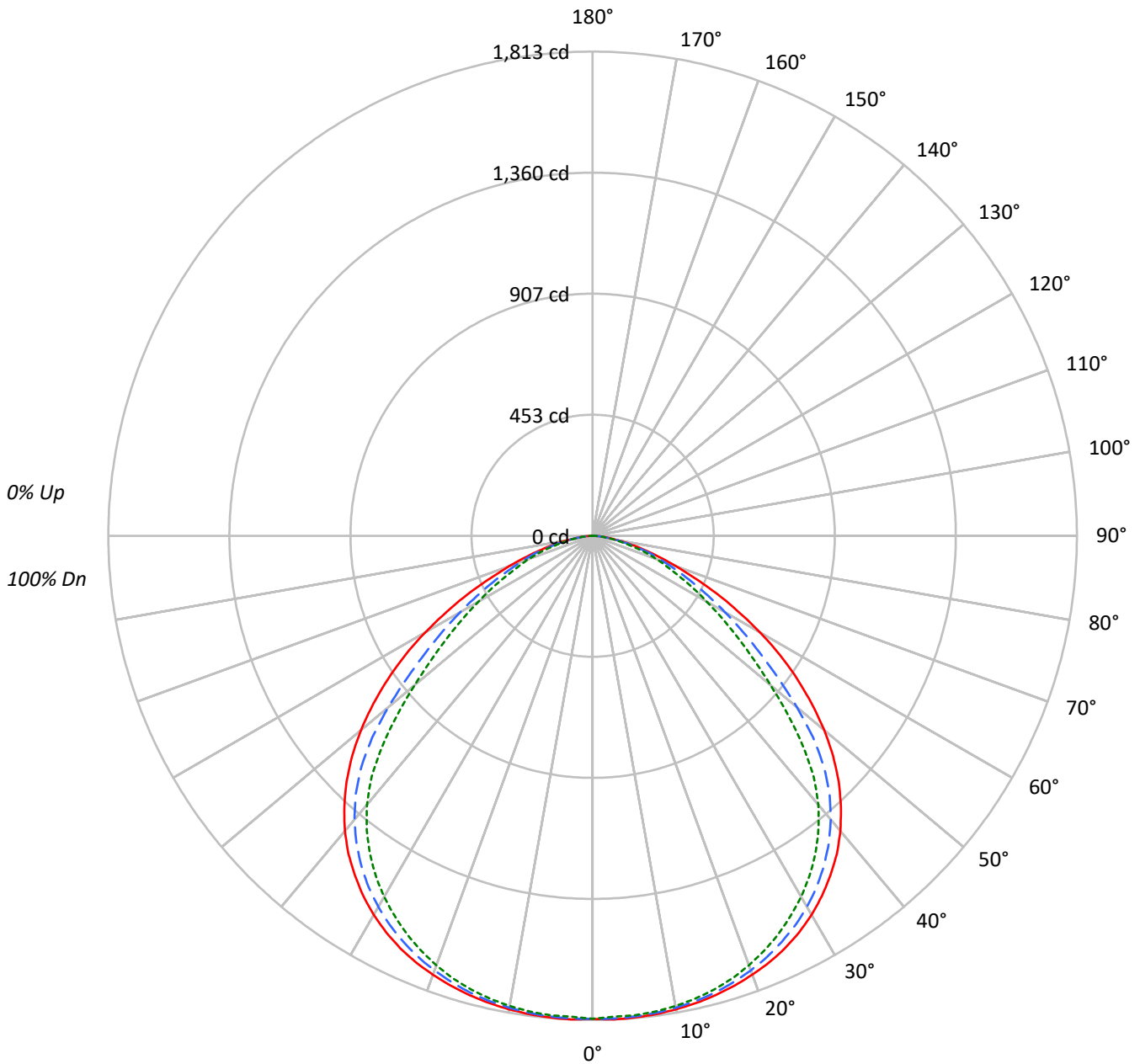
Lumens per Lamp: N/A
Luminaire Lumens: 4662.0 lumens
Efficiency: N/A
Efficacy: 86.2 lumens/watt
Spacing Criteria (0/90/45): 1.34 / 1.28 / 1.38
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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°	4867	4867	4867
5°	4892	4881	4869
10°	4921	4904	4885
15°	4961	4935	4898
20°	5009	4960	4900
25°	5060	4980	4885
30°	5093	4985	4850
35°	5098	4958	4775
40°	5068	4872	4617
45°	4958	4660	4239
50°	4738	4174	3633
55°	4388	3578	3103
60°	3897	3073	2652
65°	3270	2620	2271
70°	2592	2227	2002
75°	2026	1817	1593
80°	1511	1354	1223
85°	1003	883	812



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	172.0	3.7
10°-20°	499.8	10.7
20°-30°	771.8	16.6
30°-40°	939.3	20.1
40°-50°	929.5	19.9
50°-60°	700.3	15.0
60°-70°	420.8	9.0
70°-80°	189.7	4.1
80°-90°	38.8	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°	1443.5	31.0
0°-40°	2382.9	51.1
0°-60°	4012.7	86.1
0°-90°	4662.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4662.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1809	1809	1809	1809	1809	
5°	1811	1804	1807	1806	1802	173
15°	1781	1772	1771	1764	1758	503
25°	1704	1691	1677	1655	1645	786
35°	1552	1535	1509	1472	1454	970
45°	1303	1280	1224	1150	1114	1001
55°	935	870	763	688	661	833
65°	514	466	412	368	357	510
75°	195	185	175	159	153	212
85°	32	33	29	27	26	42
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1808.6	1808.6	1808.6	1808.6	1808.6
2.5°	1813.2	1805.5	1809.4	1808.6	1802.4
5°	1810.9	1803.9	1807.0	1805.5	1802.4
7.5°	1807.0	1800.1	1802.4	1800.1	1797.0
10°	1800.8	1793.1	1794.7	1790.0	1787.7
12.5°	1792.3	1783.1	1784.6	1778.4	1775.3
15°	1780.7	1772.2	1771.4	1764.5	1758.3
17.5°	1766.0	1757.5	1752.9	1745.1	1738.2
20°	1749.0	1738.2	1732.0	1718.1	1711.1
22.5°	1728.9	1717.3	1707.2	1687.9	1680.9
25°	1704.1	1691.0	1677.1	1654.6	1645.4
27.5°	1674.0	1660.1	1643.8	1619.1	1605.1
30°	1639.2	1624.5	1604.4	1575.7	1561.0
32.5°	1598.2	1581.9	1560.3	1526.2	1510.8
35°	1551.8	1534.7	1509.2	1472.1	1453.5
37.5°	1501.5	1482.1	1452.0	1407.1	1388.5
40°	1442.7	1423.3	1387.0	1335.2	1314.3
42.5°	1376.2	1356.8	1312.7	1250.8	1225.3
45°	1302.7	1280.2	1224.5	1149.5	1113.9
47.5°	1220.7	1192.1	1119.3	1027.3	991.7
50°	1131.7	1093.8	997.1	902.7	867.9
52.5°	1035.0	987.1	875.7	791.4	758.1
55°	935.2	869.5	762.7	688.5	661.4
57.5°	831.6	752.7	663.7	598.7	573.2
60°	724.1	647.5	570.9	511.3	492.8
62.5°	614.2	551.5	488.1	433.2	423.1
65°	513.6	465.7	411.5	368.2	356.6
67.5°	412.3	385.2	343.5	314.1	300.9
70°	329.5	311.7	283.1	259.1	254.5
72.5°	257.6	246.0	235.2	214.3	205.8
75°	194.9	184.9	174.8	158.6	153.2
77.5°	140.8	136.9	128.4	117.6	115.3
80°	97.5	97.5	87.4	81.2	78.9
82.5°	60.3	65.8	54.9	51.1	48.7
85°	32.5	33.3	28.6	27.1	26.3
87.5°	12.4	13.9	13.2	10.8	10.8
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)