

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: P412341

Luminaire Tested: **14PD-55-PB1-L935**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412341
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-L935
Description: 5500 LUMEN 1X4 PERCEIVE LED TROFFER WITH BEVEL PATTERN OPTICS AND 90 CRI, 3500 CCT LEDS
Light Source: -
Ballast/Driver: -

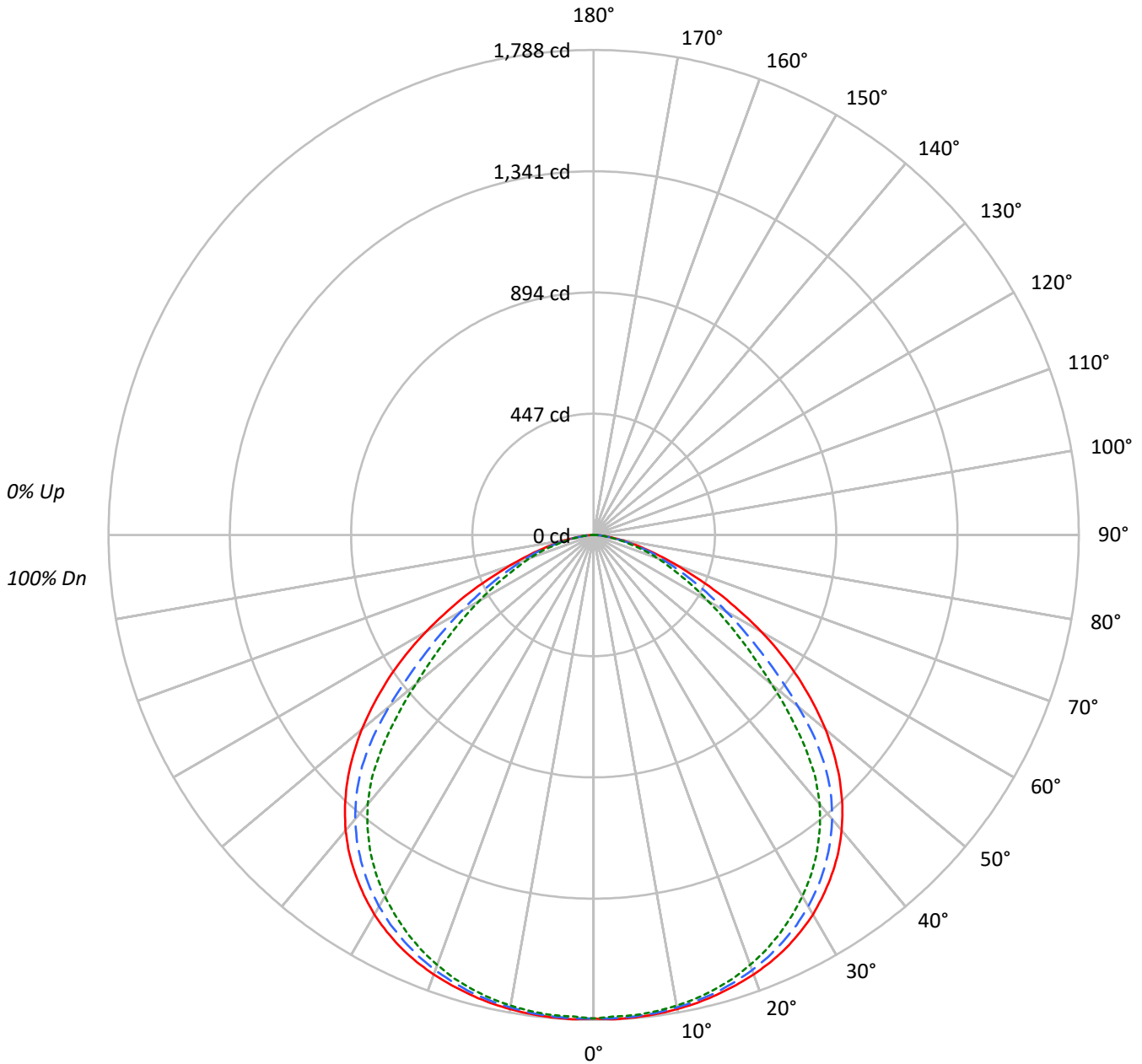
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4596.0 lumens
Efficiency: N/A
Efficacy: 85.0 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

TEST NUMBER: P412341
CATALOG NUMBER: 14PD-55-PB1-L935

Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				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				100
1	110	106	102	99	107	104	100	97	99	96	94	95	93	91	92	90	88	86				86
2	101	93	87	82	98	92	86	81	88	83	79	85	81	77	82	79	76	74				74
3	93	83	75	69	90	81	74	69	78	72	67	76	71	66	73	69	65	63				63
4	85	74	66	59	83	73	65	59	70	63	58	68	62	57	66	61	57	55				55
5	78	66	58	51	76	65	57	51	63	56	51	61	55	50	59	54	50	48				48
6	73	60	51	45	71	59	51	45	57	50	45	56	49	44	54	48	44	42				42
7	67	54	46	40	66	54	46	40	52	45	40	51	44	39	49	44	39	37				37
8	63	50	42	36	61	49	41	36	48	41	36	47	40	35	45	40	35	33				33
9	59	46	38	32	57	45	37	32	44	37	32	43	37	32	42	36	32	30				30
10	55	42	34	29	54	42	34	29	41	34	29	40	33	29	39	33	29	27				27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4798	4798	4798
5°	4823	4812	4800
10°	4851	4834	4816
15°	4891	4865	4829
20°	4938	4890	4831
25°	4988	4909	4816
30°	5021	4914	4782
35°	5026	4888	4707
40°	4996	4803	4552
45°	4887	4594	4179
50°	4671	4115	3582
55°	4326	3528	3059
60°	3842	3029	2615
65°	3224	2583	2239
70°	2556	2196	1974
75°	1998	1791	1570
80°	1489	1336	1206
85°	988	871	800



TEST NUMBER: P412341

CATALOG NUMBER: 14PD-55-PB1-L935

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	169.5	3.7
10°-20°	492.7	10.7
20°-30°	760.9	16.6
30°-40°	926.0	20.1
40°-50°	916.3	19.9
50°-60°	690.4	15.0
60°-70°	414.9	9.0
70°-80°	187.0	4.1
80°-90°	38.3	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°	1423.1	31.0
0°-40°	2349.1	51.1
0°-60°	3955.9	86.1
0°-90°	4596.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4596.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1783	1783	1783	1783	1783	
5°	1785	1778	1782	1780	1777	170
15°	1756	1747	1746	1740	1733	496
25°	1680	1667	1653	1631	1622	774
35°	1530	1513	1488	1451	1433	956
45°	1284	1262	1207	1133	1098	987
55°	922	857	752	679	652	821
65°	506	459	406	363	352	503
75°	192	182	172	156	151	209
85°	32	33	28	27	26	41
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1783.0	1783.0	1783.0	1783.0	1783.0
2.5°	1787.6	1779.9	1783.7	1783.0	1776.9
5°	1785.3	1778.4	1781.5	1779.9	1776.9
7.5°	1781.5	1774.6	1776.9	1774.6	1771.5
10°	1775.4	1767.7	1769.2	1764.7	1762.4
12.5°	1767.0	1757.8	1759.3	1753.2	1750.2
15°	1755.5	1747.1	1746.4	1739.5	1733.4
17.5°	1741.0	1732.6	1728.1	1720.4	1713.6
20°	1724.3	1713.6	1707.5	1693.8	1686.9
22.5°	1704.4	1693.0	1683.1	1664.0	1657.1
25°	1680.0	1667.1	1653.3	1631.2	1622.1
27.5°	1650.3	1636.6	1620.5	1596.1	1582.4
30°	1616.0	1601.5	1581.6	1553.4	1538.9
32.5°	1575.5	1559.5	1538.2	1504.6	1489.4
35°	1529.8	1513.0	1487.8	1451.2	1432.9
37.5°	1480.2	1461.2	1431.4	1387.2	1368.9
40°	1422.3	1403.2	1367.4	1316.3	1295.7
42.5°	1356.7	1337.6	1294.1	1233.1	1208.0
45°	1284.2	1262.1	1207.2	1133.2	1098.2
47.5°	1203.4	1175.2	1103.5	1012.7	977.7
50°	1115.7	1078.3	983.0	890.0	855.6
52.5°	1020.4	973.1	863.3	780.1	747.4
55°	922.0	857.2	751.9	678.7	652.0
57.5°	819.8	742.0	654.3	590.3	565.1
60°	713.8	638.3	562.8	504.1	485.8
62.5°	605.5	543.7	481.2	427.1	417.1
65°	506.4	459.1	405.7	363.0	351.6
67.5°	406.5	379.8	338.6	309.6	296.7
70°	324.9	307.3	279.1	255.5	250.9
72.5°	253.9	242.5	231.8	211.2	202.9
75°	192.2	182.3	172.3	156.3	151.0
77.5°	138.8	135.0	126.6	115.9	113.6
80°	96.1	96.1	86.2	80.1	77.8
82.5°	59.5	64.8	54.1	50.3	48.0
85°	32.0	32.8	28.2	26.7	25.9
87.5°	12.2	13.7	13.0	10.7	10.7
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)