

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: P412320

Luminaire Tested: **14PD-45-PB1-L850**

Issue Date: 9/15/2020

Test Information

Test Method: LM-79-08
Report Number: P412320
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-45-PB1-L850
Description: 4500 LUMEN 1X4 PERCEIVE LED TROFFER WITH BEVEL PATTERN OPTICS AND 80 CRI, 5000 CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

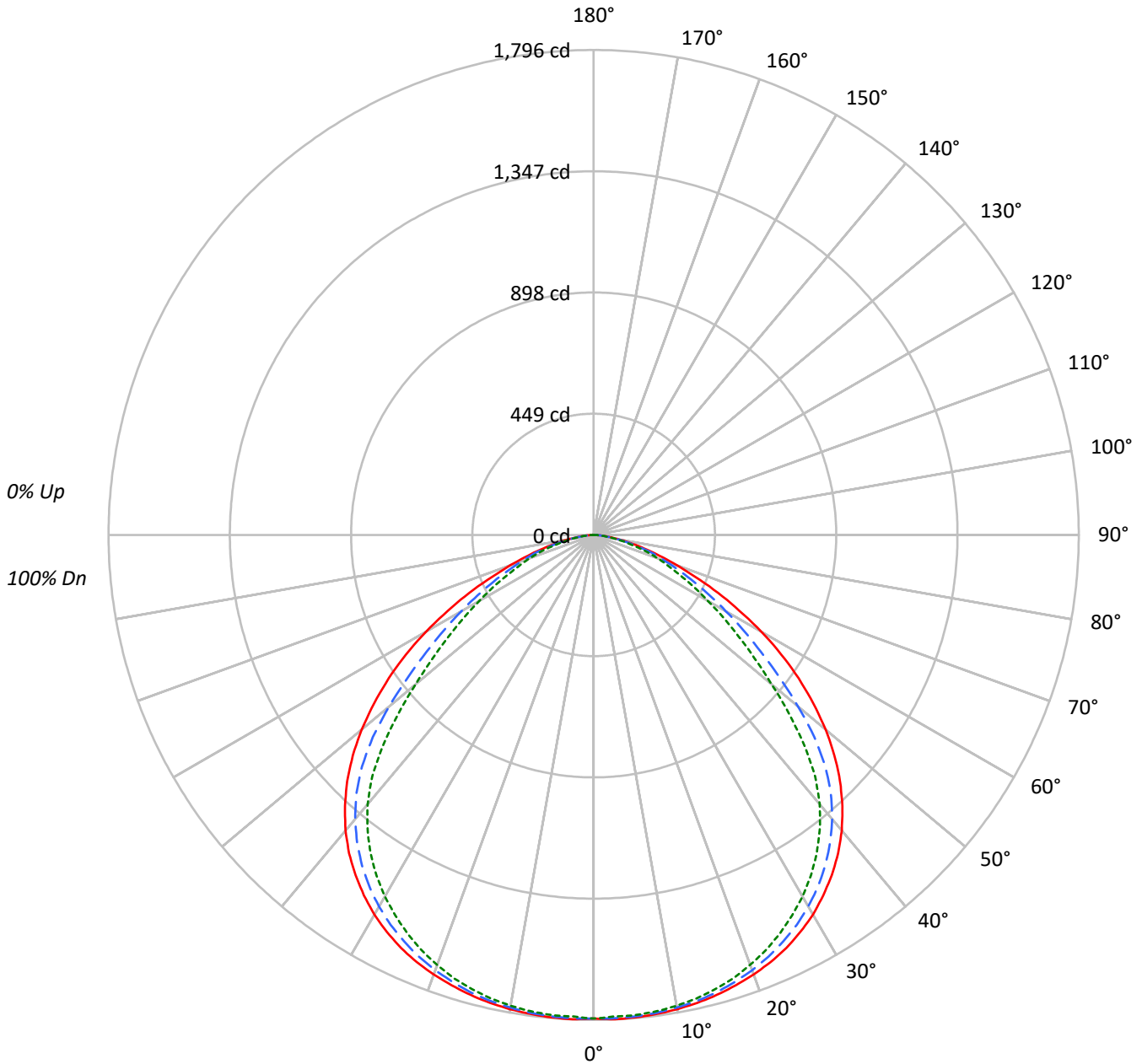
Lumens per Lamp: N/A
Luminaire Lumens: 4617.0 lumens
Efficiency: N/A
Efficacy: 107.6 lumens/watt
Spacing Criteria (0/90/45): 1.34 / 1.28 / 1.38
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 42.9
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°	4820	4820	4820
5°	4844	4834	4822
10°	4873	4856	4838
15°	4913	4888	4851
20°	4960	4912	4853
25°	5011	4931	4838
30°	5044	4937	4804
35°	5049	4910	4729
40°	5019	4825	4572
45°	4910	4615	4198
50°	4692	4134	3599
55°	4345	3544	3073
60°	3859	3043	2626
65°	3239	2595	2249
70°	2568	2206	1983
75°	2008	1800	1577
80°	1495	1342	1210
85°	994	874	803



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	170.3	3.7
10°-20°	495.0	10.7
20°-30°	764.3	16.6
30°-40°	930.2	20.1
40°-50°	920.5	19.9
50°-60°	693.6	15.0
60°-70°	416.8	9.0
70°-80°	187.8	4.1
80°-90°	38.5	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°	1429.6	31.0
0°-40°	2359.8	51.1
0°-60°	3973.9	86.1
0°-90°	4617.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4617.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1791	1791	1791	1791	1791	
5°	1793	1786	1790	1788	1785	171
15°	1764	1755	1754	1748	1741	499
25°	1688	1675	1661	1639	1630	778
35°	1537	1520	1495	1458	1440	961
45°	1290	1268	1213	1138	1103	991
55°	926	861	755	682	655	825
65°	509	461	408	365	353	505
75°	193	183	173	157	152	210
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°	1791.1	1791.1	1791.1	1791.1	1791.1
2.5°	1795.7	1788.1	1791.9	1791.1	1785.0
5°	1793.4	1786.5	1789.6	1788.1	1785.0
7.5°	1789.6	1782.7	1785.0	1782.7	1779.6
10°	1783.5	1775.8	1777.3	1772.7	1770.4
12.5°	1775.0	1765.8	1767.4	1761.2	1758.2
15°	1763.5	1755.1	1754.4	1747.5	1741.3
17.5°	1749.0	1740.6	1736.0	1728.3	1721.4
20°	1732.1	1721.4	1715.3	1701.5	1694.6
22.5°	1712.2	1700.7	1690.8	1671.6	1664.7
25°	1687.7	1674.7	1660.9	1638.7	1629.5
27.5°	1657.8	1644.0	1627.9	1603.4	1589.6
30°	1623.3	1608.8	1588.9	1560.5	1546.0
32.5°	1582.7	1566.7	1545.2	1511.5	1496.2
35°	1536.8	1519.9	1494.6	1457.9	1439.5
37.5°	1487.0	1467.8	1438.0	1393.5	1375.1
40°	1428.8	1409.6	1373.6	1322.3	1301.6
42.5°	1362.9	1343.7	1300.1	1238.8	1213.5
45°	1290.1	1267.9	1212.7	1138.4	1103.2
47.5°	1208.9	1180.5	1108.5	1017.4	982.1
50°	1120.8	1083.3	987.5	894.0	859.6
52.5°	1025.0	977.5	867.2	783.7	750.8
55°	926.2	861.1	755.4	681.8	655.0
57.5°	823.5	745.4	657.3	593.0	567.7
60°	717.1	641.2	565.4	506.4	488.0
62.5°	608.3	546.2	483.4	429.0	419.1
65°	508.7	461.2	407.6	364.7	353.2
67.5°	408.3	381.5	340.1	311.0	298.0
70°	326.4	308.7	280.4	256.6	252.0
72.5°	255.1	243.6	232.9	212.2	203.8
75°	193.1	183.1	173.1	157.0	151.7
77.5°	139.4	135.6	127.2	116.4	114.1
80°	96.5	96.5	86.6	80.4	78.1
82.5°	59.8	65.1	54.4	50.6	48.3
85°	32.2	32.9	28.3	26.8	26.0
87.5°	12.3	13.8	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)