

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: P412326

Luminaire Tested: **14PD-50-PB1-L830**

Issue Date: 9/15/2020

Test Information

Test Method: LM-79-08
Report Number: P412326
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-50-PB1-L830
Description: 5000 LUMEN 1X4 PERCEIVE LED TROFFER WITH BEVEL PATTERN OPTICS AND 80 CRI, 3000 CCT LEDS
Light Source: -
Ballast/Driver: -

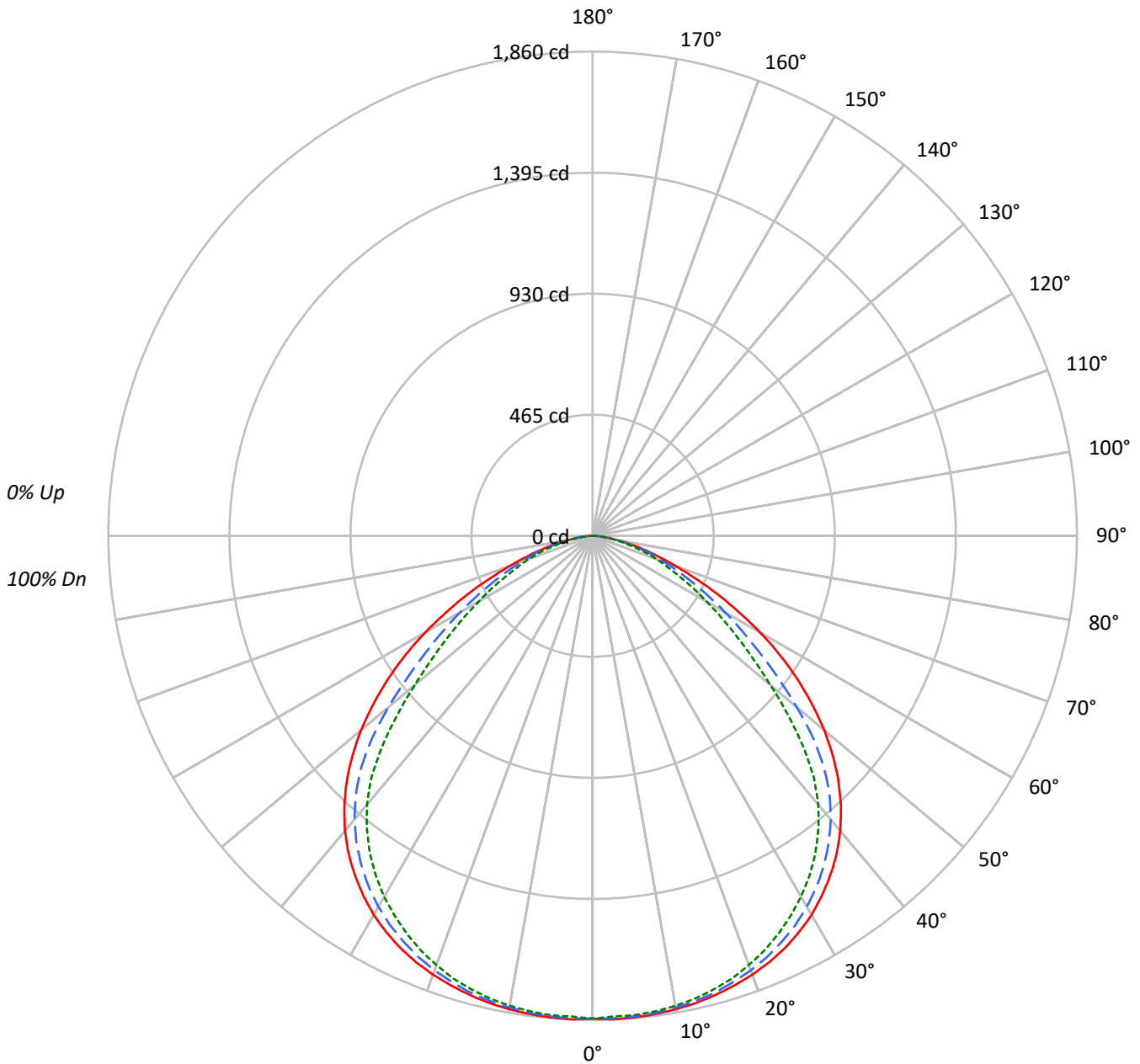
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4781.0 lumens
Efficiency: N/A
Efficacy: 98.4 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): 48.6
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				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°	4991	4991	4991
5°	5017	5006	4993
10°	5046	5029	5009
15°	5088	5061	5024
20°	5137	5086	5025
25°	5189	5107	5010
30°	5223	5112	4974
35°	5228	5084	4897
40°	5197	4997	4735
45°	5084	4779	4348
50°	4859	4281	3726
55°	4500	3670	3182
60°	3996	3151	2720
65°	3354	2687	2329
70°	2659	2284	2054
75°	2078	1864	1633
80°	1550	1389	1254
85°	1028	908	834



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	176.4	3.7
10°-20°	512.5	10.7
20°-30°	791.5	16.6
30°-40°	963.3	20.1
40°-50°	953.2	19.9
50°-60°	718.2	15.0
60°-70°	431.6	9.0
70°-80°	194.5	4.1
80°-90°	39.8	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°	1480.4	31.0
0°-40°	2443.7	51.1
0°-60°	4115.1	86.1
0°-90°	4781.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4781.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1855	1855	1855	1855	1855	
5°	1857	1850	1853	1852	1848	177
15°	1826	1818	1817	1810	1803	516
25°	1748	1734	1720	1697	1687	806
35°	1591	1574	1548	1510	1491	995
45°	1336	1313	1256	1179	1142	1026
55°	959	892	782	706	678	854
65°	527	478	422	378	366	523
75°	200	190	179	163	157	218
85°	33	34	29	28	27	43
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1854.7	1854.7	1854.7	1854.7	1854.7
2.5°	1859.5	1851.6	1855.5	1854.7	1848.4
5°	1857.1	1850.0	1853.2	1851.6	1848.4
7.5°	1853.2	1846.0	1848.4	1846.0	1842.8
10°	1846.8	1838.9	1840.5	1835.7	1833.3
12.5°	1838.1	1828.6	1830.2	1823.8	1820.6
15°	1826.2	1817.5	1816.7	1809.5	1803.2
17.5°	1811.1	1802.4	1797.6	1789.7	1782.6
20°	1793.7	1782.6	1776.2	1761.9	1754.8
22.5°	1773.0	1761.1	1750.8	1731.0	1723.8
25°	1747.6	1734.2	1719.9	1696.9	1687.4
27.5°	1716.7	1702.4	1685.8	1660.4	1646.1
30°	1681.0	1665.9	1645.3	1616.0	1600.9
32.5°	1639.0	1622.3	1600.1	1565.2	1549.3
35°	1591.4	1573.9	1547.7	1509.7	1490.6
37.5°	1539.8	1520.0	1489.0	1443.0	1424.0
40°	1479.5	1459.7	1422.4	1369.2	1347.8
42.5°	1411.3	1391.5	1346.2	1282.8	1256.6
45°	1335.9	1312.9	1255.8	1178.8	1142.4
47.5°	1251.8	1222.5	1147.9	1053.5	1017.0
50°	1160.6	1121.7	1022.6	925.8	890.1
52.5°	1061.4	1012.3	898.0	811.6	777.4
55°	959.1	891.7	782.2	706.0	678.3
57.5°	852.8	771.9	680.7	614.0	587.8
60°	742.5	664.0	585.5	524.4	505.3
62.5°	629.9	565.6	500.6	444.3	433.9
65°	526.8	477.6	422.0	377.6	365.7
67.5°	422.8	395.1	352.2	322.1	308.6
70°	337.9	319.7	290.3	265.8	261.0
72.5°	264.2	252.3	241.2	219.7	211.0
75°	199.9	189.6	179.3	162.6	157.1
77.5°	144.4	140.4	131.7	120.6	118.2
80°	100.0	100.0	89.6	83.3	80.9
82.5°	61.9	67.4	56.3	52.4	50.0
85°	33.3	34.1	29.4	27.8	27.0
87.5°	12.7	14.3	13.5	11.1	11.1
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)