

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: P412317

Luminaire Tested: **14PD-45-PB1-L830**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412317
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-L830
Description: 4500 LUMEN 1X4 PERCEIVE LED TROFFER WITH BEVEL PATTERN OPTICS AND 80 CRI, 3000 CCT LEDS
Light Source: -
Ballast/Driver: -

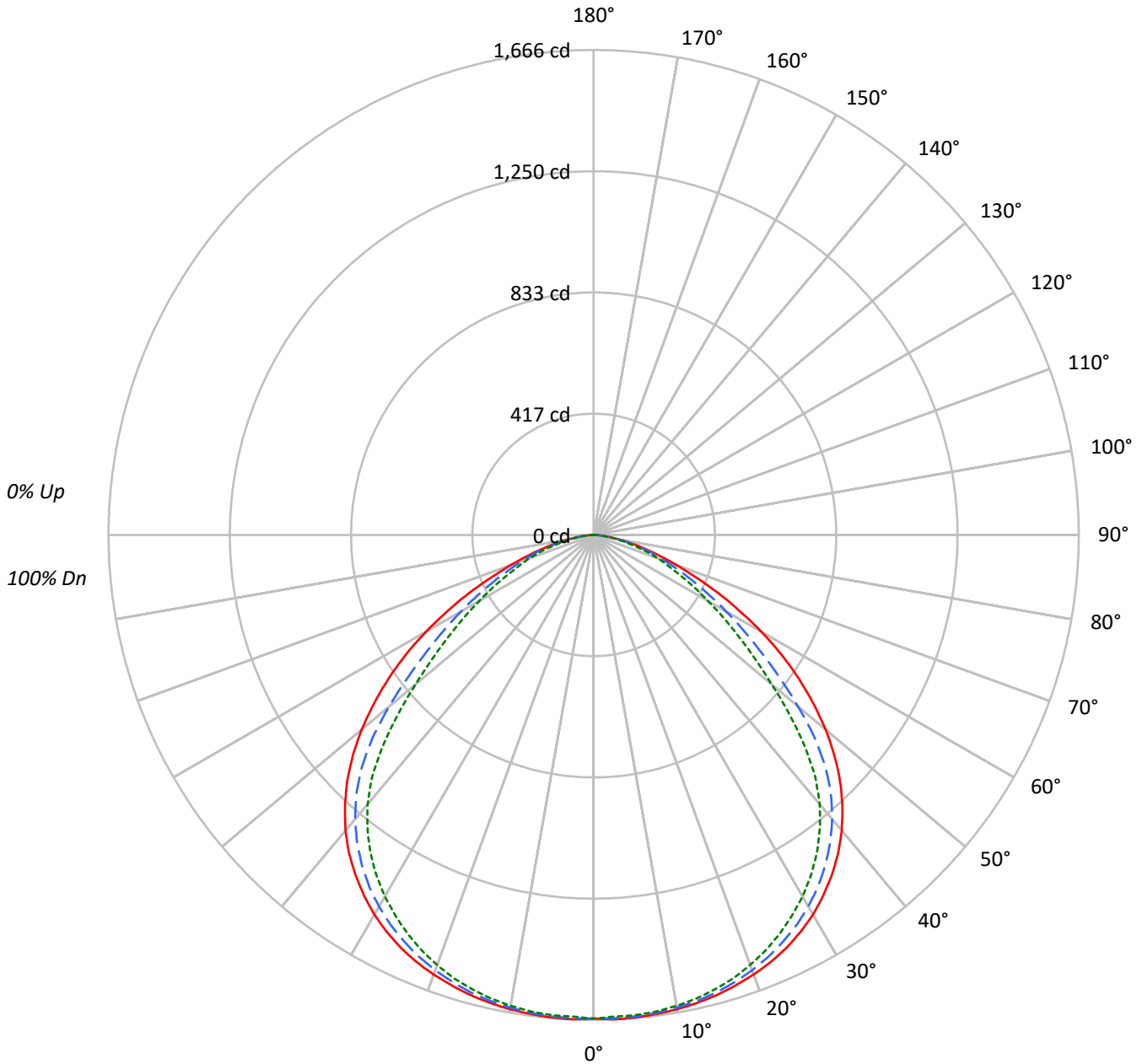
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4283.0 lumens
Efficiency: N/A
Efficacy: 99.8 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									
RC	80									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°	4471	4471	4471
5°	4494	4484	4473
10°	4521	4505	4488
15°	4558	4534	4500
20°	4601	4557	4502
25°	4649	4575	4488
30°	4679	4580	4456
35°	4683	4555	4387
40°	4656	4476	4241
45°	4555	4281	3895
50°	4353	3835	3338
55°	4031	3287	2851
60°	3580	2823	2436
65°	3005	2408	2086
70°	2382	2046	1840
75°	1862	1670	1463
80°	1387	1244	1124
85°	920	812	747



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	158.0	3.7
10°-20°	459.1	10.7
20°-30°	709.0	16.6
30°-40°	862.9	20.1
40°-50°	853.9	19.9
50°-60°	643.4	15.0
60°-70°	386.6	9.0
70°-80°	174.3	4.1
80°-90°	35.7	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°	1326.2	31.0
0°-40°	2189.1	51.1
0°-60°	3686.5	86.1
0°-90°	4283.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4283.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1662	1662	1662	1662	1662	
5°	1664	1657	1660	1659	1656	159
15°	1636	1628	1627	1621	1615	462
25°	1566	1554	1541	1520	1512	722
35°	1426	1410	1386	1352	1335	891
45°	1197	1176	1125	1056	1023	920
55°	859	799	701	632	608	765
65°	472	428	378	338	328	469
75°	179	170	161	146	141	195
85°	30	31	26	25	24	38
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1661.6	1661.6	1661.6	1661.6	1661.6
2.5°	1665.8	1658.7	1662.3	1661.6	1655.9
5°	1663.7	1657.3	1660.1	1658.7	1655.9
7.5°	1660.1	1653.7	1655.9	1653.7	1650.9
10°	1654.4	1647.3	1648.8	1644.5	1642.4
12.5°	1646.6	1638.1	1639.5	1633.8	1631.0
15°	1636.0	1628.1	1627.4	1621.0	1615.4
17.5°	1622.5	1614.6	1610.4	1603.3	1596.9
20°	1606.8	1596.9	1591.2	1578.4	1572.0
22.5°	1588.4	1577.7	1568.5	1550.7	1544.3
25°	1565.6	1553.5	1540.7	1520.1	1511.6
27.5°	1537.9	1525.1	1510.2	1487.4	1474.6
30°	1505.9	1492.4	1473.9	1447.6	1434.1
32.5°	1468.2	1453.3	1433.4	1402.2	1387.9
35°	1425.6	1410.0	1386.5	1352.4	1335.4
37.5°	1379.4	1361.6	1333.9	1292.7	1275.7
40°	1325.4	1307.6	1274.2	1226.6	1207.4
42.5°	1264.3	1246.5	1206.0	1149.2	1125.7
45°	1196.8	1176.2	1125.0	1056.1	1023.4
47.5°	1121.4	1095.1	1028.3	943.8	911.1
50°	1039.7	1004.9	916.1	829.4	797.4
52.5°	950.9	906.8	804.5	727.0	696.5
55°	859.2	798.8	700.7	632.5	607.6
57.5°	764.0	691.5	609.8	550.1	526.6
60°	665.2	594.8	524.5	469.8	452.7
62.5°	564.3	506.7	448.4	398.0	388.7
65°	471.9	427.8	378.1	338.3	327.6
67.5°	378.8	353.9	315.5	288.5	276.5
70°	302.7	286.4	260.1	238.1	233.8
72.5°	236.7	226.0	216.0	196.9	189.0
75°	179.1	169.9	160.6	145.7	140.7
77.5°	129.3	125.8	118.0	108.0	105.9
80°	89.5	89.5	80.3	74.6	72.5
82.5°	55.4	60.4	50.5	46.9	44.8
85°	29.8	30.6	26.3	24.9	24.2
87.5°	11.4	12.8	12.1	9.9	9.9
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)