

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: P412318

Luminaire Tested: **14PD-45-PB1-L835**

Issue Date: 9/15/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P412318  
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-L835  
Description: 4500 LUMEN 1X4 PERCEIVE LED TROFFER WITH BEVEL PATTERN OPTICS AND 80 CRI, 3500 CCT LEDS  
Light Source: -  
Ballast/Driver: -

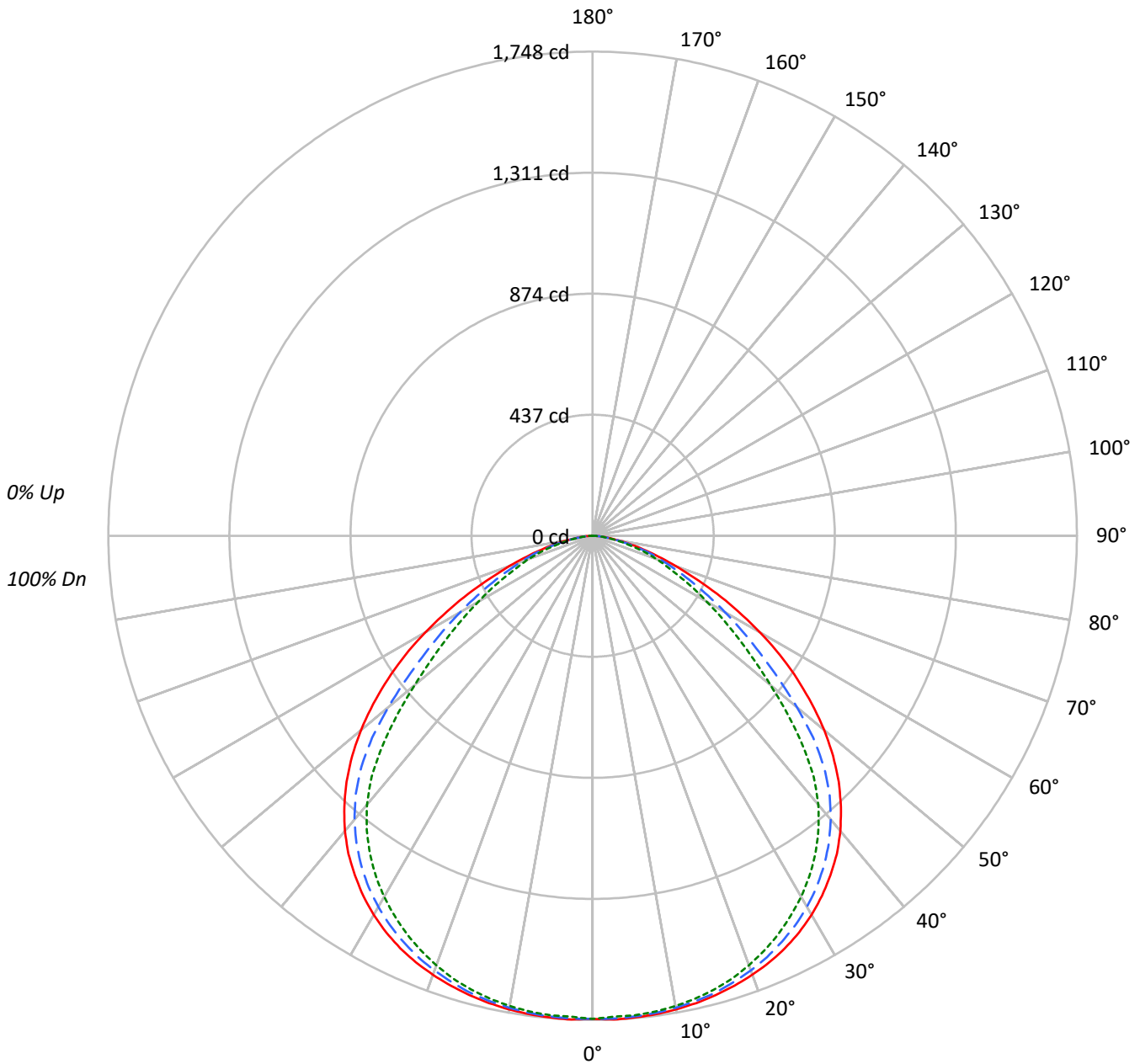
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4495.0 lumens  
Efficiency: N/A  
Efficacy: 104.8 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<sub>in</sub>): 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			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°	4693	4693	4693
5°	4716	4706	4694
10°	4744	4728	4710
15°	4783	4758	4723
20°	4829	4782	4724
25°	4879	4801	4710
30°	4911	4807	4677
35°	4915	4780	4604
40°	4886	4698	4451
45°	4780	4493	4087
50°	4568	4025	3503
55°	4230	3450	2992
60°	3757	2962	2557
65°	3153	2527	2189
70°	2500	2148	1931
75°	1955	1753	1536
80°	1457	1306	1179
85°	966	852	784



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	165.8	3.7
10°-20°	481.9	10.7
20°-30°	744.1	16.6
30°-40°	905.7	20.1
40°-50°	896.2	19.9
50°-60°	675.2	15.0
60°-70°	405.7	9.0
70°-80°	182.9	4.1
80°-90°	37.4	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°	1391.8	31.0
0°-40°	2297.5	51.1
0°-60°	3868.9	86.1
0°-90°	4495.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4495.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1744	1744	1744	1744	1744	
5°	1746	1739	1742	1741	1738	166
15°	1717	1709	1708	1701	1695	485
25°	1643	1630	1617	1595	1586	757
35°	1496	1480	1455	1419	1401	935
45°	1256	1234	1181	1108	1074	965
55°	902	838	735	664	638	803
65°	495	449	397	355	344	492
75°	188	178	169	153	148	205
85°	31	32	28	26	25	40
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1743.8	1743.8	1743.8	1743.8	1743.8
2.5°	1748.3	1740.8	1744.5	1743.8	1737.8
5°	1746.0	1739.3	1742.3	1740.8	1737.8
7.5°	1742.3	1735.6	1737.8	1735.6	1732.6
10°	1736.3	1728.9	1730.4	1725.9	1723.7
12.5°	1728.1	1719.2	1720.7	1714.7	1711.7
15°	1716.9	1708.7	1708.0	1701.3	1695.3
17.5°	1702.8	1694.6	1690.1	1682.6	1675.9
20°	1686.4	1675.9	1670.0	1656.5	1649.8
22.5°	1667.0	1655.8	1646.1	1627.4	1620.7
25°	1643.1	1630.4	1617.0	1595.4	1586.4
27.5°	1614.0	1600.6	1584.9	1561.1	1547.6
30°	1580.5	1566.3	1546.9	1519.3	1505.1
32.5°	1540.9	1525.3	1504.4	1471.6	1456.6
35°	1496.2	1479.8	1455.2	1419.3	1401.4
37.5°	1447.7	1429.0	1400.0	1356.7	1338.8
40°	1391.0	1372.4	1337.3	1287.3	1267.2
42.5°	1326.9	1308.2	1265.7	1206.0	1181.4
45°	1256.0	1234.4	1180.7	1108.3	1074.0
47.5°	1176.9	1149.4	1079.2	990.5	956.2
50°	1091.2	1054.6	961.4	870.4	836.8
52.5°	997.9	951.7	844.3	763.0	730.9
55°	901.7	838.3	735.4	663.8	637.7
57.5°	801.8	725.7	639.9	577.3	552.7
60°	698.1	624.3	550.4	493.0	475.1
62.5°	592.2	531.8	470.6	417.7	408.0
65°	495.2	449.0	396.8	355.0	343.8
67.5°	397.5	371.4	331.2	302.8	290.1
70°	317.7	300.6	273.0	249.9	245.4
72.5°	248.4	237.2	226.7	206.6	198.4
75°	188.0	178.3	168.6	152.9	147.7
77.5°	135.7	132.0	123.8	113.4	111.1
80°	94.0	94.0	84.3	78.3	76.1
82.5°	58.2	63.4	53.0	49.2	47.0
85°	31.3	32.1	27.6	26.1	25.4
87.5°	11.9	13.4	12.7	10.4	10.4
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)