

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: P412516

Luminaire Tested: **24PD-45-PB1-L835**

Issue Date: 9/15/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P412516  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-45)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 24PD-45-PB1-L835  
Description: 4500 LUMEN 2X4 PERCEIVE LED TROFFER WITH BEVEL PATTERN OPTICS AND 80 CRI, 3500 CCT LEDS  
Light Source: -  
Ballast/Driver: -

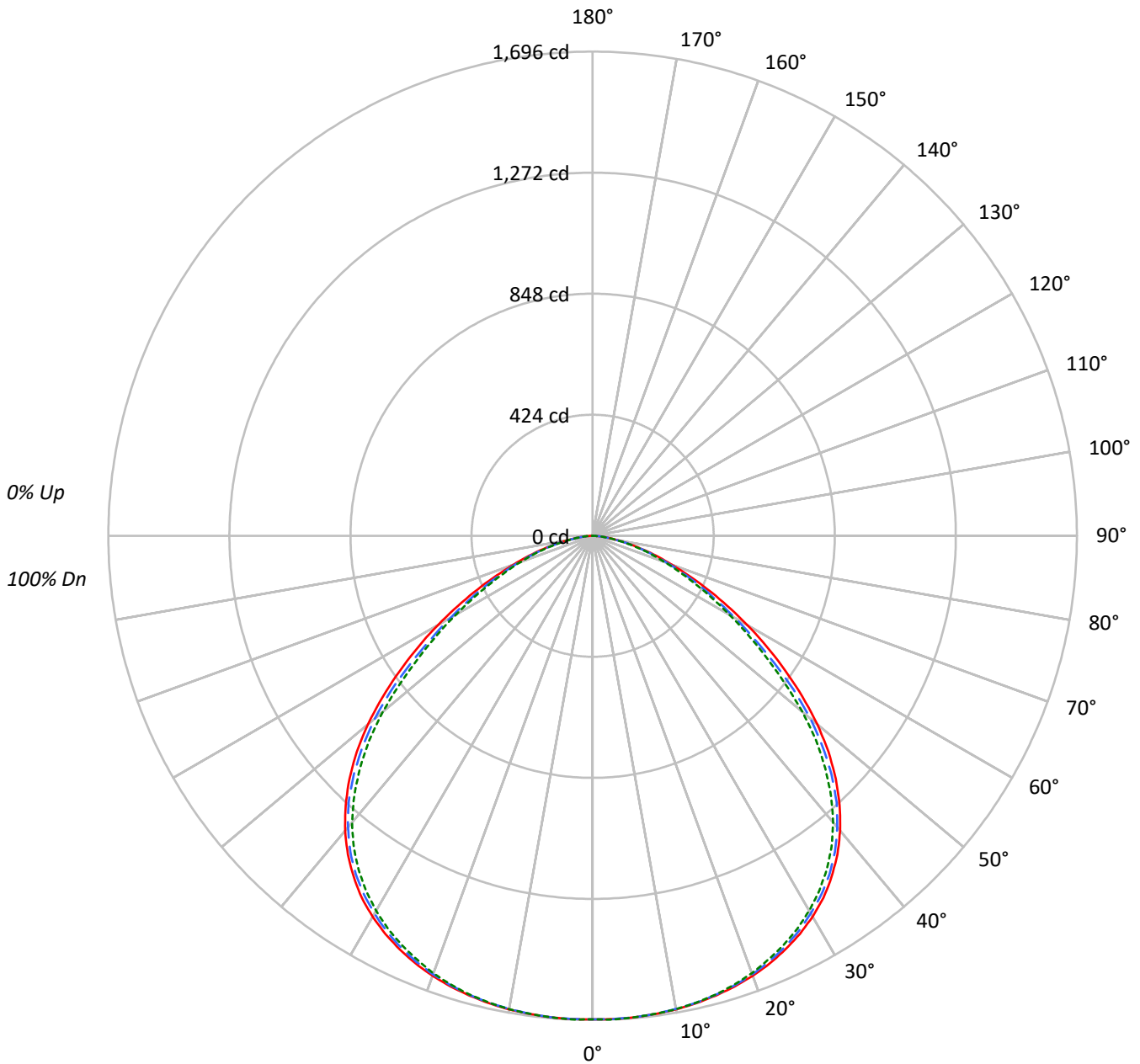
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4507.0 lumens  
Efficiency: N/A  
Efficacy: 136.6 lumens/watt  
Spacing Criteria (0/90/45): 1.34 / 1.32 / 1.41  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 33  
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									
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	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86																			
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73																			
3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	73	69	65	63																			
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	65	60	56	54																			
5	78	66	57	51	76	65	57	51	63	56	50	61	55	50	59	54	49	47																			
6	72	60	51	45	70	59	51	45	57	50	44	55	49	44	54	48	43	41																			
7	67	54	46	40	65	53	45	40	52	45	39	50	44	39	49	43	39	37																			
8	63	49	41	35	61	49	41	35	47	40	35	46	40	35	45	39	35	33																			
9	58	45	37	32	57	45	37	32	44	37	32	43	36	32	42	36	31	30																			
10	55	42	34	29	53	41	34	29	40	33	29	39	33	29	39	33	29	27																			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	2279	2279	2279
5°	2286	2286	2286
10°	2302	2299	2300
15°	2322	2319	2317
20°	2349	2341	2335
25°	2373	2361	2348
30°	2394	2374	2356
35°	2396	2376	2346
40°	2369	2341	2302
45°	2292	2250	2192
50°	2149	2082	2006
55°	1931	1817	1742
60°	1682	1548	1488
65°	1415	1309	1252
70°	1153	1095	1051
75°	924	892	854
80°	710	654	637
85°	443	429	429



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	161.3	3.6
10°-20°	470.7	10.4
20°-30°	733.3	16.3
30°-40°	902.1	20.0
40°-50°	906.1	20.1
50°-60°	698.4	15.5
60°-70°	414.6	9.2
70°-80°	184.6	4.1
80°-90°	36.1	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°	1365.2	30.3
0°-40°	2267.3	50.3
0°-60°	3871.8	85.9
0°-90°	4507.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4507.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1694	1694	1694	1694	1694	
5°	1693	1693	1693	1691	1693	161
15°	1667	1667	1665	1662	1664	471
25°	1599	1598	1590	1583	1582	737
35°	1459	1457	1446	1434	1428	911
45°	1204	1201	1182	1163	1152	925
55°	823	808	774	751	742	736
65°	444	425	411	396	393	444
75°	178	174	172	166	164	192
85°	29	27	28	26	28	38
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1693.8	1693.8	1693.8	1693.8	1693.8
2.5°	1694.7	1694.2	1694.2	1692.4	1696.0
5°	1692.9	1693.3	1692.9	1691.1	1692.9
7.5°	1689.3	1689.7	1688.9	1687.1	1688.9
10°	1684.8	1684.8	1683.0	1682.1	1683.5
12.5°	1677.2	1677.2	1675.4	1674.0	1675.4
15°	1667.3	1667.3	1665.1	1662.4	1663.7
17.5°	1655.2	1655.2	1651.6	1648.0	1648.9
20°	1640.4	1639.9	1635.0	1630.0	1630.5
22.5°	1621.5	1621.1	1614.8	1608.9	1607.1
25°	1598.6	1598.2	1590.5	1583.4	1581.6
27.5°	1572.1	1570.3	1561.8	1553.7	1551.9
30°	1540.7	1539.4	1528.1	1520.1	1516.5
32.5°	1504.3	1500.8	1490.4	1480.5	1475.6
35°	1459.0	1456.8	1446.4	1434.3	1428.5
37.5°	1407.8	1405.6	1394.4	1380.9	1374.2
40°	1348.6	1346.8	1332.9	1318.9	1310.4
42.5°	1280.3	1279.0	1264.2	1244.9	1235.9
45°	1204.5	1201.3	1182.5	1162.7	1151.9
47.5°	1120.1	1114.7	1091.8	1072.9	1061.3
50°	1026.7	1019.5	994.8	970.6	958.5
52.5°	925.7	913.1	887.5	859.7	848.0
55°	823.3	807.6	774.4	751.0	742.5
57.5°	723.2	700.3	668.9	652.3	643.8
60°	624.9	599.8	575.1	558.9	553.1
62.5°	531.1	510.0	488.9	472.7	469.1
65°	444.4	425.1	411.2	395.5	393.3
67.5°	363.6	354.6	342.1	328.6	326.8
70°	293.1	289.6	278.3	270.3	267.1
72.5°	233.9	230.3	222.2	216.4	215.5
75°	177.8	174.2	171.5	165.7	164.3
77.5°	126.6	127.0	124.8	121.7	122.6
80°	91.6	86.2	84.4	82.6	82.2
82.5°	56.1	53.0	51.6	51.2	52.1
85°	28.7	27.4	27.8	26.5	27.8
87.5°	9.9	9.9	10.3	9.9	10.8
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)