

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: P412319

Luminaire Tested: **14PD-45-PB1-L840**

Issue Date: 9/15/2020



**Test Information**

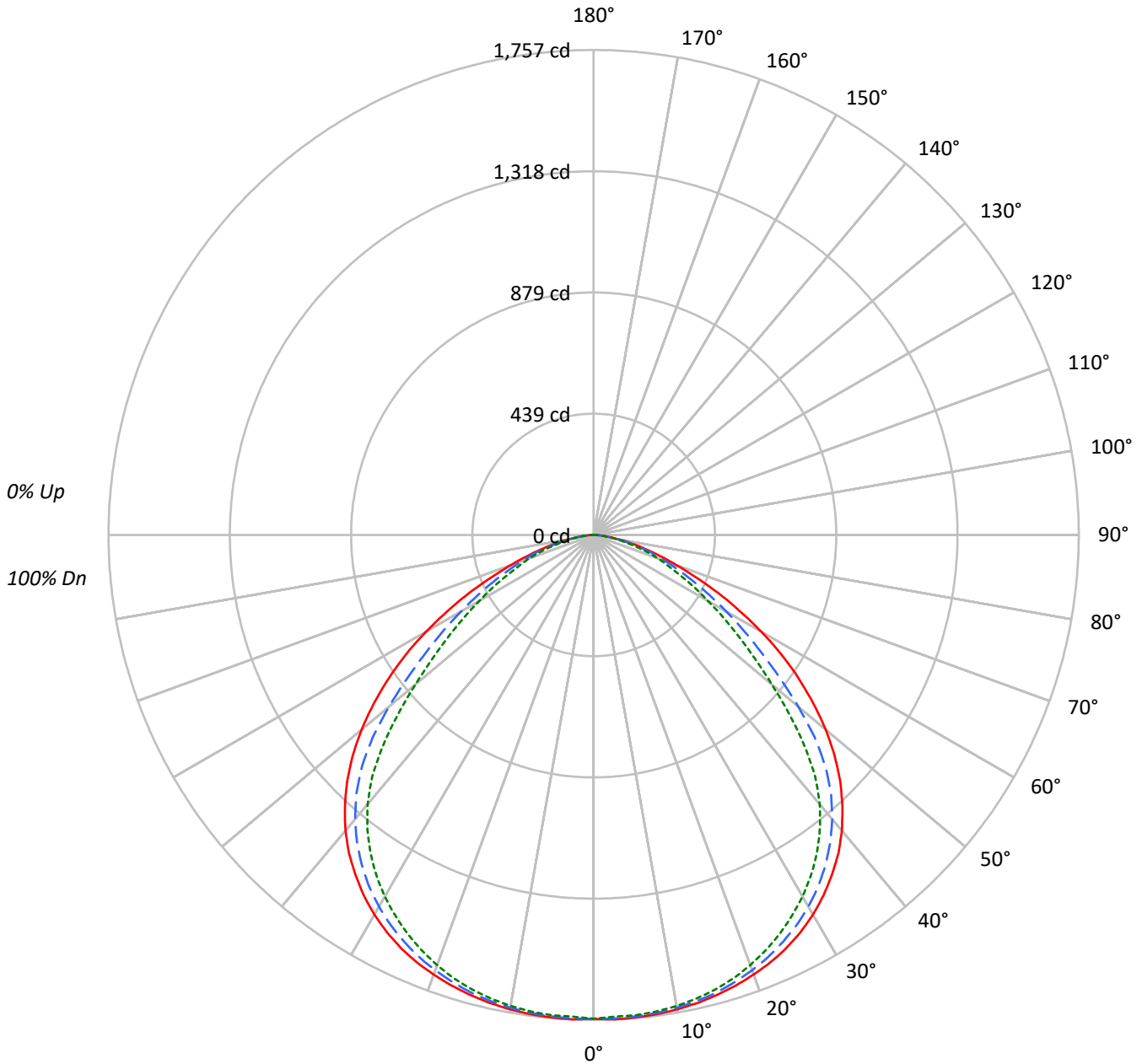
Test Method: LM-79-08  
Report Number: P412319  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-56)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 14PD-45-PB1-L840  
Description: 4500 LUMEN 1X4 PERCEIVE LED TROFFER WITH BEVEL PATTERN OPTICS AND 80 CRI, 4000 CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4518.0 lumens  
Efficiency: N/A  
Efficacy: 105.3 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									
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°	4716	4716	4716
5°	4741	4730	4718
10°	4769	4752	4734
15°	4808	4783	4747
20°	4854	4807	4749
25°	4904	4826	4734
30°	4936	4831	4701
35°	4940	4805	4627
40°	4911	4722	4474
45°	4804	4516	4108
50°	4592	4045	3521
55°	4252	3468	3007
60°	3777	2978	2570
65°	3170	2539	2201
70°	2513	2159	1940
75°	1964	1761	1543
80°	1464	1313	1185
85°	973	855	787



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	166.7	3.7
10°-20°	484.3	10.7
20°-30°	748.0	16.6
30°-40°	910.3	20.1
40°-50°	900.8	19.9
50°-60°	678.7	15.0
60°-70°	407.8	9.0
70°-80°	183.8	4.1
80°-90°	37.6	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°	1399.0	31.0
0°-40°	2309.2	51.1
0°-60°	3888.7	86.1
0°-90°	4518.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4518.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1753	1753	1753	1753	1753	
5°	1755	1748	1751	1750	1747	167
15°	1726	1718	1717	1710	1704	488
25°	1652	1639	1625	1604	1594	761
35°	1504	1487	1463	1427	1409	940
45°	1262	1241	1187	1114	1080	970
55°	906	843	739	667	641	807
65°	498	451	399	357	346	495
75°	189	179	169	154	148	206
85°	32	32	28	26	26	41
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1752.7	1752.7	1752.7	1752.7	1752.7
2.5°	1757.2	1749.7	1753.5	1752.7	1746.7
5°	1755.0	1748.2	1751.2	1749.7	1746.7
7.5°	1751.2	1744.5	1746.7	1744.5	1741.5
10°	1745.2	1737.7	1739.2	1734.7	1732.5
12.5°	1737.0	1728.0	1729.5	1723.5	1720.5
15°	1725.7	1717.5	1716.7	1710.0	1704.0
17.5°	1711.5	1703.2	1698.7	1691.2	1684.5
20°	1695.0	1684.5	1678.5	1665.0	1658.3
22.5°	1675.5	1664.3	1654.5	1635.8	1629.0
25°	1651.5	1638.8	1625.3	1603.5	1594.5
27.5°	1622.3	1608.8	1593.0	1569.0	1555.6
30°	1588.5	1574.3	1554.8	1527.1	1512.8
32.5°	1548.8	1533.1	1512.1	1479.1	1464.1
35°	1503.8	1487.3	1462.6	1426.6	1408.6
37.5°	1455.1	1436.4	1407.1	1363.6	1345.6
40°	1398.1	1379.4	1344.1	1293.9	1273.7
42.5°	1333.7	1314.9	1272.2	1212.2	1187.5
45°	1262.4	1240.7	1186.7	1114.0	1079.5
47.5°	1183.0	1155.2	1084.8	995.6	961.1
50°	1096.8	1060.0	966.3	874.9	841.1
52.5°	1003.1	956.6	848.6	766.9	734.7
55°	906.3	842.6	739.2	667.2	641.0
57.5°	805.9	729.4	643.2	580.2	555.5
60°	701.7	627.5	553.3	495.5	477.5
62.5°	595.2	534.5	473.0	419.8	410.1
65°	497.8	451.3	398.8	356.8	345.6
67.5°	399.6	373.3	332.9	304.4	291.6
70°	319.4	302.1	274.4	251.1	246.6
72.5°	249.6	238.4	227.9	207.7	199.4
75°	188.9	179.2	169.4	153.7	148.4
77.5°	136.4	132.7	124.4	113.9	111.7
80°	94.5	94.5	84.7	78.7	76.5
82.5°	58.5	63.7	53.2	49.5	47.2
85°	31.5	32.2	27.7	26.2	25.5
87.5°	12.0	13.5	12.7	10.5	10.5
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)