

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: P412324

Luminaire Tested: **14PD-45-PB1-L940**

Issue Date: 9/15/2020

**Test Information**

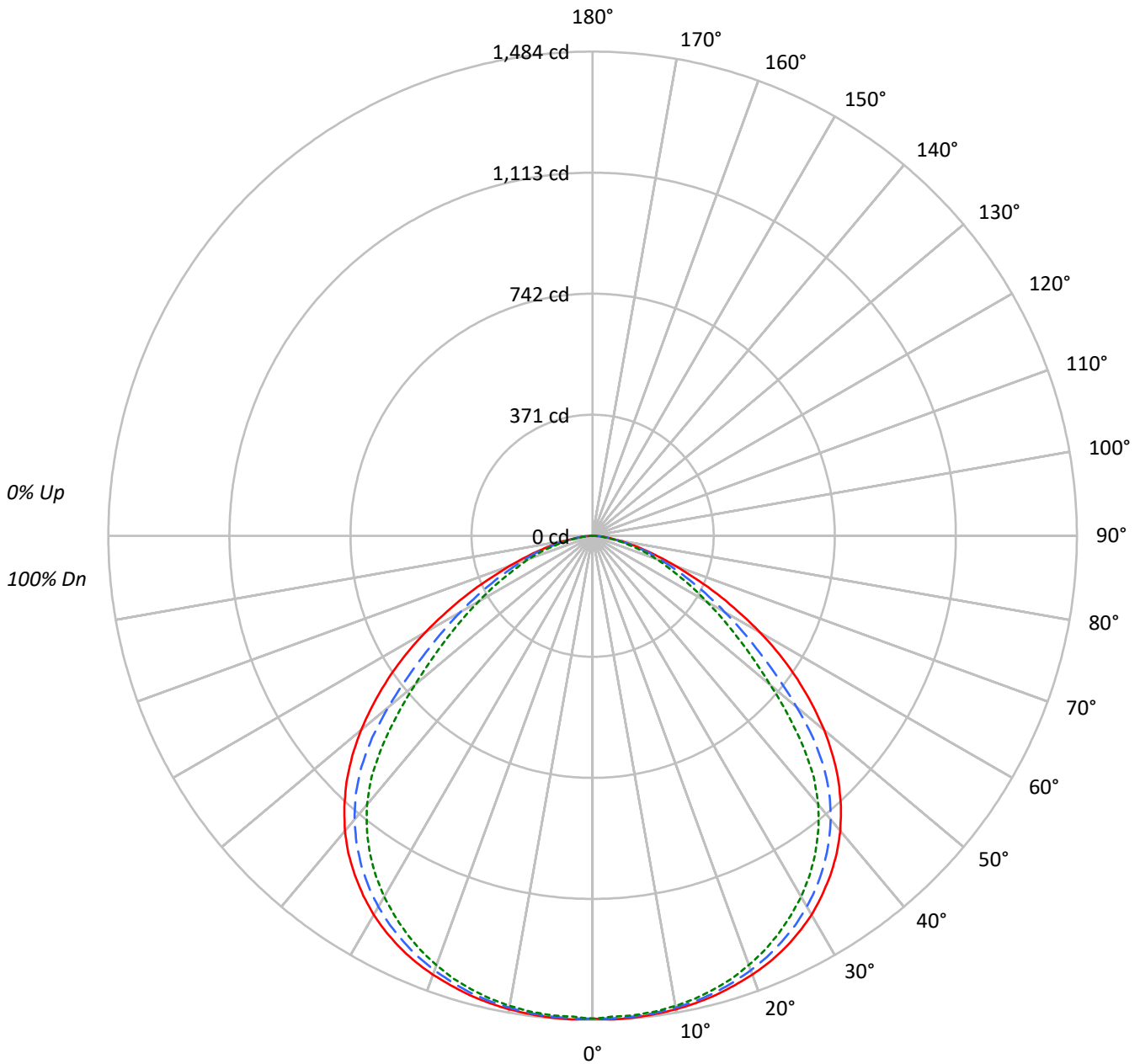
Test Method: LM-79-08  
Report Number: P412324  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-56)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 14PD-45-PB1-L940  
Description: 4500 LUMEN 1X4 PERCEIVE LED TROFFER WITH BEVEL PATTERN OPTICS AND 90 CRI, 4000 CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3815.0 lumens  
Efficiency: N/A  
Efficacy: 88.9 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°	3983	3983	3983
5°	4003	3994	3984
10°	4027	4013	3997
15°	4060	4038	4008
20°	4099	4059	4010
25°	4141	4075	3998
30°	4168	4080	3969
35°	4171	4057	3907
40°	4147	3987	3778
45°	4057	3814	3469
50°	3877	3416	2973
55°	3590	2928	2539
60°	3189	2514	2170
65°	2676	2145	1858
70°	2122	1823	1639
75°	1658	1488	1303
80°	1237	1108	1001
85°	821	722	664



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	140.7	3.7
10°-20°	409.0	10.7
20°-30°	631.6	16.6
30°-40°	768.7	20.1
40°-50°	760.6	19.9
50°-60°	573.1	15.0
60°-70°	344.4	9.0
70°-80°	155.2	4.1
80°-90°	31.8	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°	1181.3	31.0
0°-40°	1949.9	51.1
0°-60°	3283.6	86.1
0°-90°	3815.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3815.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1480	1480	1480	1480	1480	
5°	1482	1476	1479	1478	1475	141
15°	1457	1450	1450	1444	1439	412
25°	1394	1384	1372	1354	1346	643
35°	1270	1256	1235	1205	1189	794
45°	1066	1048	1002	941	912	819
55°	765	712	624	563	541	682
65°	420	381	337	301	292	418
75°	160	151	143	130	125	174
85°	27	27	23	22	22	34
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1480.0	1480.0	1480.0	1480.0	1480.0
2.5°	1483.8	1477.5	1480.6	1480.0	1474.9
5°	1481.9	1476.2	1478.7	1477.5	1474.9
7.5°	1478.7	1473.0	1474.9	1473.0	1470.5
10°	1473.7	1467.3	1468.6	1464.8	1462.9
12.5°	1466.7	1459.1	1460.4	1455.3	1452.8
15°	1457.2	1450.2	1449.6	1443.9	1438.8
17.5°	1445.2	1438.2	1434.4	1428.1	1422.4
20°	1431.3	1422.4	1417.3	1405.9	1400.2
22.5°	1414.8	1405.3	1397.1	1381.2	1375.5
25°	1394.5	1383.8	1372.4	1354.0	1346.4
27.5°	1369.8	1358.5	1345.2	1324.9	1313.5
30°	1341.4	1329.3	1312.9	1289.5	1277.4
32.5°	1307.8	1294.5	1276.8	1248.9	1236.3
35°	1269.8	1255.9	1235.0	1204.6	1189.4
37.5°	1228.7	1212.9	1188.2	1151.5	1136.3
40°	1180.6	1164.8	1135.0	1092.6	1075.5
42.5°	1126.1	1110.3	1074.2	1023.6	1002.7
45°	1066.0	1047.6	1002.1	940.7	911.5
47.5°	998.9	975.5	916.0	840.6	811.5
50°	926.1	895.1	816.0	738.7	710.2
52.5°	847.0	807.7	716.6	647.6	620.4
55°	765.3	711.5	624.2	563.4	541.2
57.5°	680.5	615.9	543.1	490.0	469.1
60°	592.5	529.8	467.2	418.4	403.2
62.5°	502.6	451.3	399.4	354.5	346.3
65°	420.3	381.1	336.8	301.3	291.8
67.5°	337.4	315.2	281.1	257.0	246.2
70°	269.7	255.1	231.7	212.1	208.3
72.5°	210.8	201.3	192.4	175.3	168.4
75°	159.5	151.3	143.1	129.8	125.3
77.5°	115.2	112.0	105.1	96.2	94.3
80°	79.8	79.8	71.5	66.5	64.6
82.5°	49.4	53.8	44.9	41.8	39.9
85°	26.6	27.2	23.4	22.2	21.5
87.5°	10.1	11.4	10.8	8.9	8.9
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)