

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: P412667

Luminaire Tested: **14PD-45-PP3-L950**

Issue Date: 9/15/2020



**Test Information**

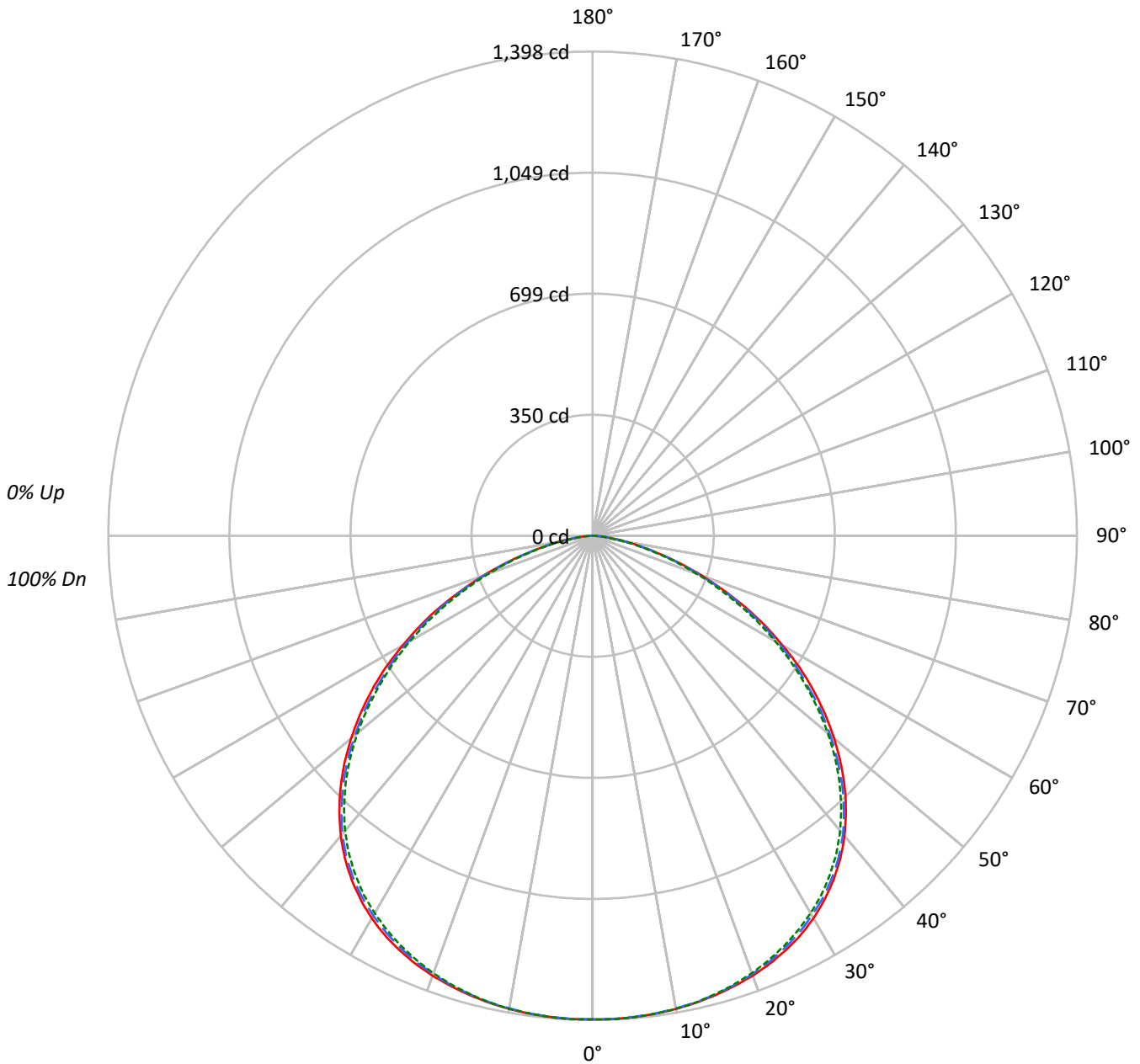
Test Method: LM-79-08  
Report Number: P412667  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-47)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 14PD-45-PP3-L950  
Description: 4500 LUMEN 1X4 PERCEIVE LED TROFFER WITH PRISM PATTERN OPTICS AND 90 CRI, 5000 CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4063.0 lumens  
Efficiency: N/A  
Efficacy: 94.7 lumens/watt  
Spacing Criteria (0/90/45): 1.35 / 1.33 / 1.43  
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								
1	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85								
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	71								
3	91	81	73	66	89	79	72	66	76	70	65	73	68	64	71	66	63	60								
4	83	72	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54	52								
5	77	64	55	49	75	63	54	48	61	53	48	59	52	47	57	51	47	45								
6	71	58	49	42	69	57	48	42	55	47	42	53	46	41	52	46	41	39								
7	66	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34								
8	61	47	39	33	59	47	39	33	45	38	33	44	38	33	43	37	32	31								
9	57	44	35	30	55	43	35	30	42	35	30	41	34	29	40	34	29	27								
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25								

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

	0°	45°	90°
0°	3757	3757	3757
5°	3767	3766	3769
10°	3791	3787	3790
15°	3824	3819	3816
20°	3871	3858	3849
25°	3919	3899	3881
30°	3963	3935	3910
35°	3984	3960	3924
40°	3974	3949	3905
45°	3917	3878	3835
50°	3809	3748	3709
55°	3652	3564	3518
60°	3402	3343	3275
65°	3084	3022	2934
70°	2633	2585	2501
75°	2056	2035	1938
80°	1517	1454	1371
85°	914	914	852



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	132.8	3.3
10°-20°	387.7	9.5
20°-30°	605.9	14.9
30°-40°	753.0	18.5
40°-50°	784.6	19.3
50°-60°	680.8	16.8
60°-70°	468.1	11.5
70°-80°	211.3	5.2
80°-90°	38.7	1.0
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°	1126.4	27.7
0°-40°	1879.4	46.3
0°-60°	3344.9	82.3
0°-90°	4063.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4063.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1396	1396	1396	1396	1396	
5°	1395	1395	1394	1393	1395	133
15°	1373	1373	1371	1370	1370	388
25°	1320	1320	1313	1308	1307	609
35°	1213	1213	1206	1199	1194	758
45°	1029	1030	1019	1011	1008	792
55°	778	774	760	751	750	694
65°	484	482	475	463	461	478
75°	198	198	196	190	186	215
85°	30	29	30	29	28	40
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1396.3	1396.3	1396.3	1396.3	<i>1396.3</i>
2.5°	<i>1396.7</i>	<i>1396.7</i>	<i>1395.9</i>	<i>1394.7</i>	<i>1397.6</i>
5°	1394.7	1395.1	1394.3	1393.1	<i>1395.1</i>
7.5°	1391.9	1392.3	1391.1	1389.8	<i>1391.5</i>
10°	1387.4	1387.0	1385.8	1385.0	<i>1387.0</i>
12.5°	1380.9	1380.5	1379.3	1378.5	<i>1380.1</i>
15°	1372.8	1372.8	1370.8	1369.5	<i>1369.9</i>
17.5°	1363.0	1363.0	1360.2	1357.4	<i>1358.2</i>
20°	1351.7	1351.3	1347.2	1344.4	<i>1344.0</i>
22.5°	1337.5	1337.5	1331.8	1328.1	<i>1326.9</i>
25°	1320.0	1319.6	1313.1	1307.8	<i>1307.0</i>
27.5°	1300.1	1299.3	1291.6	1286.3	<i>1284.3</i>
30°	1275.3	1274.5	1266.4	1260.7	<i>1258.3</i>
32.5°	1246.1	1247.3	1238.0	1231.5	<i>1229.1</i>
35°	1212.8	1212.8	1205.5	1198.6	<i>1194.5</i>
37.5°	1174.6	1174.6	1167.7	1160.8	<i>1156.0</i>
40°	1131.2	1131.6	1124.3	1115.8	<i>1111.7</i>
42.5°	1082.5	1083.3	1073.5	1066.6	<i>1062.2</i>
45°	1029.3	1029.7	1019.1	1011.4	<i>1007.8</i>
47.5°	971.6	970.8	959.0	952.5	<i>948.9</i>
50°	909.9	908.3	895.3	889.2	<i>886.0</i>
52.5°	845.4	842.1	830.7	821.8	<i>819.0</i>
55°	778.4	773.9	759.7	750.7	<i>749.9</i>
57.5°	708.5	703.2	691.5	682.9	<i>679.7</i>
60°	632.2	631.0	621.2	611.1	<i>608.6</i>
62.5°	560.7	557.1	548.5	536.4	<i>535.1</i>
65°	484.4	482.4	474.6	463.3	<i>460.8</i>
67.5°	405.6	407.7	401.2	391.0	<i>387.8</i>
70°	334.6	335.8	328.5	319.1	<i>317.9</i>
72.5°	263.1	265.1	259.0	253.0	<i>251.7</i>
75°	197.7	198.5	195.7	190.4	<i>186.4</i>
77.5°	140.5	143.3	140.1	136.4	<i>133.2</i>
80°	97.9	93.4	93.8	92.2	<i>88.5</i>
82.5°	58.9	56.8	56.4	54.8	<i>53.2</i>
85°	29.6	29.2	29.6	29.2	<i>27.6</i>
87.5°	9.7	10.6	11.0	11.0	<i>10.2</i>
90°	0.0	0.0	0.0	0.0	<i>0.0</i>



Report Generated By 670246072 / DESKTOP-MV3F9LC







— 0°-180°    - - 45°-225°    - - - - 90°-270°







(END OF REPORT)