

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: P412663

Luminaire Tested: **14PD-45-PP3-L927**

Issue Date: 9/15/2020

**Test Information**

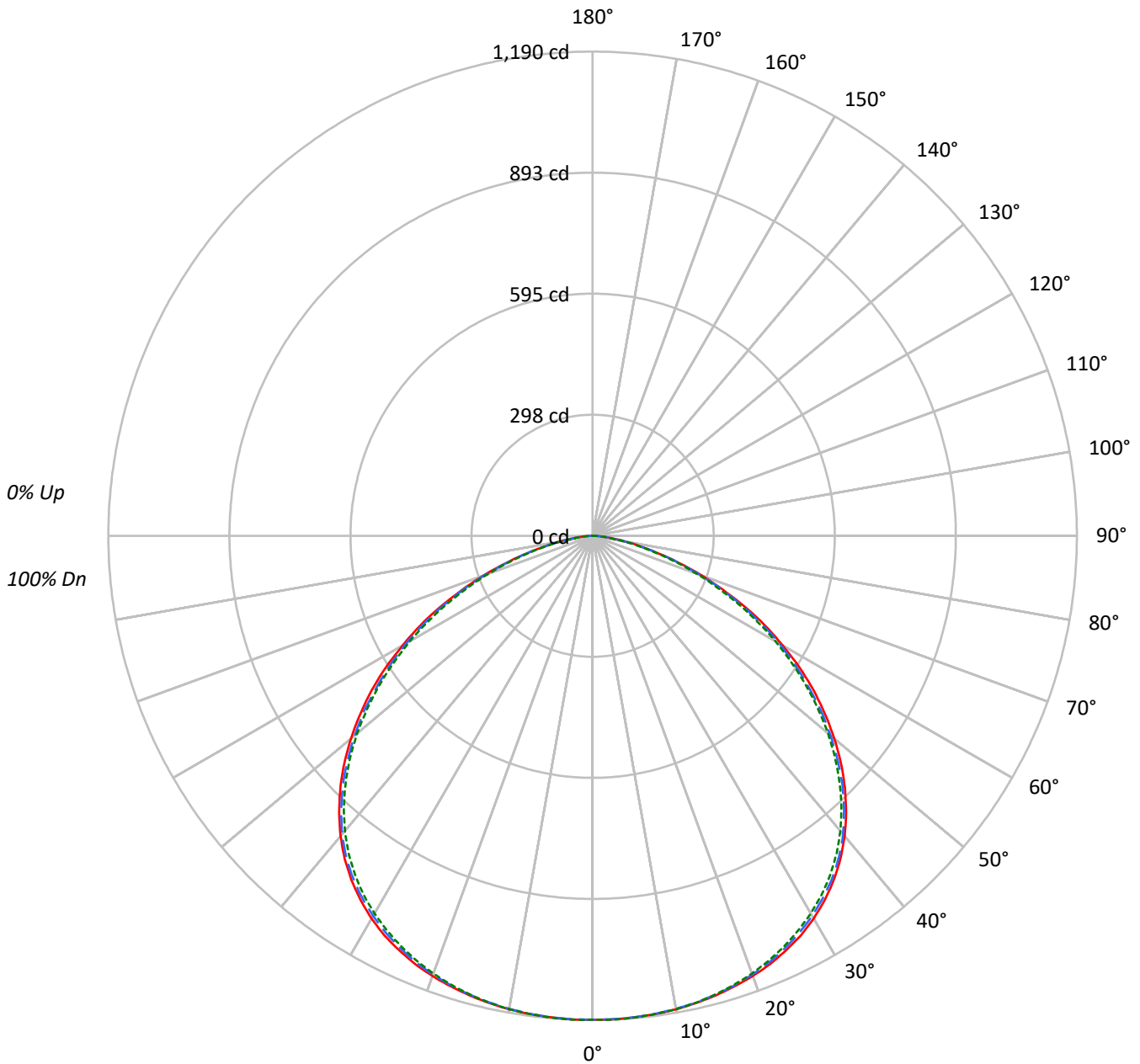
Test Method: LM-79-08  
Report Number: P412663  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-47)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 14PD-45-PP3-L927  
Description: 4500 LUMEN 1X4 PERCEIVE LED TROFFER WITH PRISM PATTERN OPTICS AND 90 CRI, 2700 CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3461.0 lumens  
Efficiency: N/A  
Efficacy: 80.7 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°	3201	3201	3201
5°	3209	3208	3210
10°	3229	3226	3228
15°	3258	3253	3251
20°	3297	3286	3278
25°	3339	3321	3306
30°	3376	3352	3330
35°	3394	3373	3343
40°	3385	3364	3327
45°	3337	3304	3267
50°	3245	3193	3159
55°	3111	3036	2997
60°	2898	2848	2791
65°	2627	2574	2500
70°	2242	2201	2131
75°	1751	1733	1651
80°	1292	1238	1168
85°	778	778	726



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	113.2	3.3
10°-20°	330.2	9.5
20°-30°	516.1	14.9
30°-40°	641.5	18.5
40°-50°	668.3	19.3
50°-60°	579.9	16.8
60°-70°	398.8	11.5
70°-80°	180.0	5.2
80°-90°	33.0	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°	959.5	27.7
0°-40°	1601.0	46.3
0°-60°	2849.3	82.3
0°-90°	3461.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3461.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1189	1189	1189	1189	1189	
5°	1188	1188	1188	1187	1188	113
15°	1169	1169	1168	1167	1167	331
25°	1124	1124	1118	1114	1113	519
35°	1033	1033	1027	1021	1018	646
45°	877	877	868	862	858	675
55°	663	659	647	640	639	591
65°	413	411	404	395	393	407
75°	168	169	167	162	159	183
85°	25	25	25	25	24	34
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1189.4	1189.4	1189.4	1189.4	<i>1189.4</i>
2.5°	<i>1189.8</i>	<i>1189.8</i>	<i>1189.1</i>	<i>1188.1</i>	<i>1190.5</i>
5°	1188.1	1188.4	1187.7	1186.7	<i>1188.4</i>
7.5°	1185.6	1186.0	1184.9	1183.9	<i>1185.3</i>
10°	1181.8	1181.5	1180.5	1179.8	<i>1181.5</i>
12.5°	1176.3	1176.0	1174.9	1174.2	<i>1175.6</i>
15°	1169.4	1169.4	1167.7	1166.6	<i>1167.0</i>
17.5°	1161.1	1161.1	1158.7	1156.2	<i>1156.9</i>
20°	1151.4	1151.1	1147.6	1145.2	<i>1144.8</i>
22.5°	1139.3	1139.3	1134.5	1131.3	<i>1130.3</i>
25°	1124.4	1124.1	1118.5	1114.0	<i>1113.4</i>
27.5°	1107.5	1106.8	1100.2	1095.7	<i>1094.0</i>
30°	1086.4	1085.7	1078.8	1073.9	<i>1071.8</i>
32.5°	1061.5	1062.5	1054.6	1049.0	<i>1046.9</i>
35°	1033.1	1033.1	1026.9	1021.0	<i>1017.5</i>
37.5°	1000.6	1000.6	994.7	988.8	<i>984.7</i>
40°	963.6	963.9	957.7	950.4	<i>947.0</i>
42.5°	922.1	922.8	914.5	908.6	<i>904.8</i>
45°	876.8	877.1	868.1	861.6	<i>858.4</i>
47.5°	827.7	827.0	816.9	811.4	<i>808.3</i>
50°	775.1	773.7	762.6	757.5	<i>754.7</i>
52.5°	720.1	717.3	707.6	700.0	<i>697.6</i>
55°	663.0	659.2	647.1	639.5	<i>638.8</i>
57.5°	603.5	599.0	589.0	581.8	<i>579.0</i>
60°	538.5	537.5	529.2	520.5	<i>518.5</i>
62.5°	477.6	474.5	467.3	456.9	<i>455.9</i>
65°	412.6	410.9	404.3	394.6	<i>392.6</i>
67.5°	345.5	347.3	341.7	333.1	<i>330.3</i>
70°	285.0	286.0	279.8	271.9	<i>270.8</i>
72.5°	224.1	225.9	220.7	215.5	<i>214.4</i>
75°	168.4	169.1	166.7	162.2	<i>158.8</i>
77.5°	119.7	122.1	119.3	116.2	<i>113.4</i>
80°	83.4	79.5	79.9	78.5	<i>75.4</i>
82.5°	50.2	48.4	48.1	46.7	<i>45.3</i>
85°	25.2	24.9	25.2	24.9	<i>23.5</i>
87.5°	8.3	9.0	9.3	9.3	<i>8.6</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)