

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: P413014

Luminaire Tested: **14PD-50-PC3-L927**

Issue Date: 9/15/2020



**Test Information**

Test Method: LM-79-08  
Report Number: P413014  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-57)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 14PD-50-PC3-L927  
Description: 5000 LUMEN 1X4 PERCEIVE LED TROFFER WITH PYRAMID PATTERN OPTICS AND 90 CRI, 2700 CCT LEDS  
Light Source: -  
Ballast/Driver: -

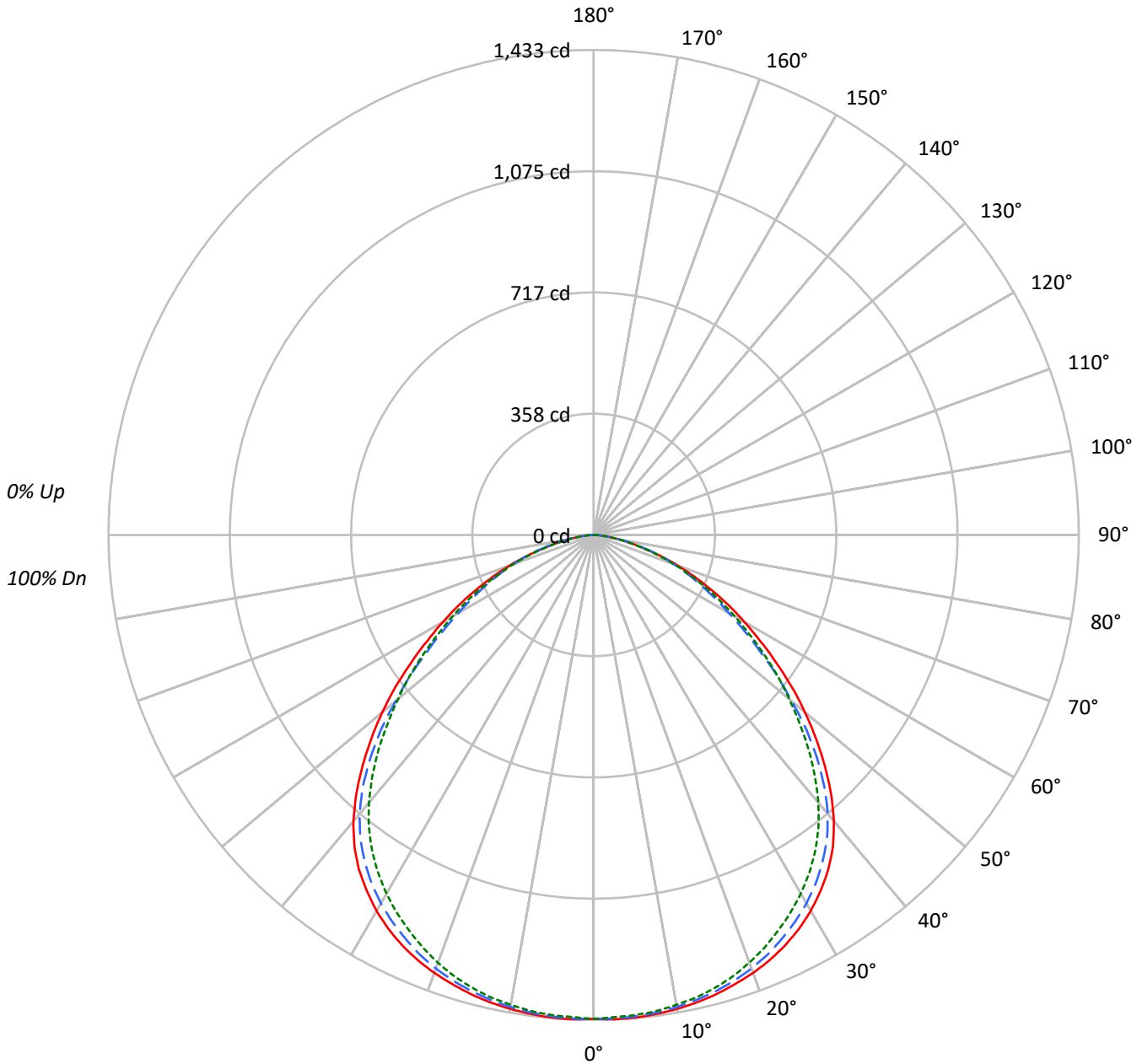
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3695.0 lumens  
Efficiency: N/A  
Efficacy: 76.0 lumens/watt  
Spacing Criteria (0/90/45): 1.32 / 1.27 / 1.37  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 48.6  
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			100
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86			86
2	101	93	87	81	98	91	85	80	88	83	79	84	80	77	81	78	75	73			73
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	62			62
4	85	73	65	59	83	72	64	58	70	63	58	67	62	57	65	60	56	54			54
5	78	66	57	51	76	65	57	51	63	56	50	61	55	50	59	53	49	47			47
6	72	60	51	45	70	59	50	45	57	50	44	55	49	44	54	48	43	41			41
7	67	54	46	40	65	53	45	40	52	45	39	50	44	39	49	43	39	37			37
8	63	49	41	36	61	49	41	35	47	40	35	46	40	35	45	39	35	33			33
9	58	45	37	32	57	45	37	32	44	37	32	43	36	32	42	36	31	30			30
10	55	42	34	29	54	41	34	29	40	34	29	40	33	29	39	33	29	27			27

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

	0°	45°	90°
0°	3848	3848	3848
5°	3867	3857	3847
10°	3886	3871	3851
15°	3913	3888	3860
20°	3944	3904	3851
25°	3972	3909	3829
30°	3986	3905	3803
35°	3968	3872	3748
40°	3878	3778	3627
45°	3676	3550	3420
50°	3412	3195	3157
55°	3089	2816	2878
60°	2763	2480	2589
65°	2437	2223	2301
70°	2075	1969	1984
75°	1595	1680	1548
80°	1168	1227	1159
85°	784	861	843



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	135.9	3.7
10°-20°	393.9	10.7
20°-30°	605.8	16.4
30°-40°	733.0	19.8
40°-50°	715.6	19.4
50°-60°	553.0	15.0
60°-70°	355.1	9.6
70°-80°	167.6	4.5
80°-90°	35.2	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°	1135.5	30.7
0°-40°	1868.5	50.6
0°-60°	3137.1	84.9
0°-90°	3695.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3695.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1430	1430	1430	1430	1430	
5°	1432	1425	1428	1427	1424	136
15°	1404	1398	1396	1390	1385	397
25°	1338	1327	1316	1299	1290	617
35°	1208	1195	1179	1152	1141	753
45°	966	954	933	909	899	743
55°	658	627	600	601	614	590
65°	383	360	349	345	361	381
75°	153	156	162	148	149	168
85°	25	29	28	27	27	33
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1429.8	1429.8	1429.8	1429.8	1429.8
2.5°	1433.0	1427.3	1430.4	1430.4	1426.0
5°	1431.7	1425.4	1427.9	1426.6	1424.1
7.5°	1427.9	1421.6	1423.5	1422.2	1419.0
10°	1422.2	1415.2	1416.5	1414.0	1409.5
12.5°	1414.6	1408.3	1407.0	1403.2	1400.0
15°	1404.4	1397.5	1395.6	1390.5	1385.4
17.5°	1391.1	1384.2	1381.0	1373.4	1367.7
20°	1377.2	1369.0	1363.3	1351.8	1344.9
22.5°	1359.5	1349.9	1342.3	1326.5	1319.5
25°	1337.9	1327.1	1316.4	1299.2	1289.7
27.5°	1312.6	1301.1	1288.5	1269.5	1258.7
30°	1282.8	1271.4	1256.8	1235.2	1223.8
32.5°	1247.3	1235.9	1220.7	1195.9	1184.5
35°	1208.0	1195.3	1178.8	1152.2	1140.8
37.5°	1161.1	1147.1	1131.9	1102.8	1090.7
40°	1104.0	1092.0	1075.5	1046.4	1032.4
42.5°	1038.1	1027.4	1009.0	981.1	967.8
45°	965.9	953.8	932.9	908.8	898.7
47.5°	890.5	872.7	852.4	831.5	825.8
50°	815.0	792.2	763.1	752.3	754.2
52.5°	737.7	708.6	683.2	675.0	684.5
55°	658.5	626.8	600.2	600.8	613.5
57.5°	583.1	550.1	527.9	527.9	544.4
60°	513.4	482.9	460.8	460.1	481.0
62.5°	448.7	417.7	401.2	401.2	420.2
65°	382.8	360.0	349.2	345.4	361.3
67.5°	322.0	306.1	298.5	294.1	304.2
70°	263.7	253.5	250.3	245.3	252.2
72.5°	206.0	203.4	209.8	197.7	200.9
75°	153.4	155.9	161.6	148.3	148.9
77.5°	110.3	115.3	117.2	110.9	110.9
80°	75.4	81.8	79.2	76.1	74.8
82.5°	48.2	51.3	51.3	49.4	48.2
85°	25.4	29.2	27.9	27.3	27.3
87.5°	9.5	13.3	13.3	12.7	12.0
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)