

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: P412321

Luminaire Tested: **14PD-45-PB1-L927**

Issue Date: 9/15/2020



**Test Information**

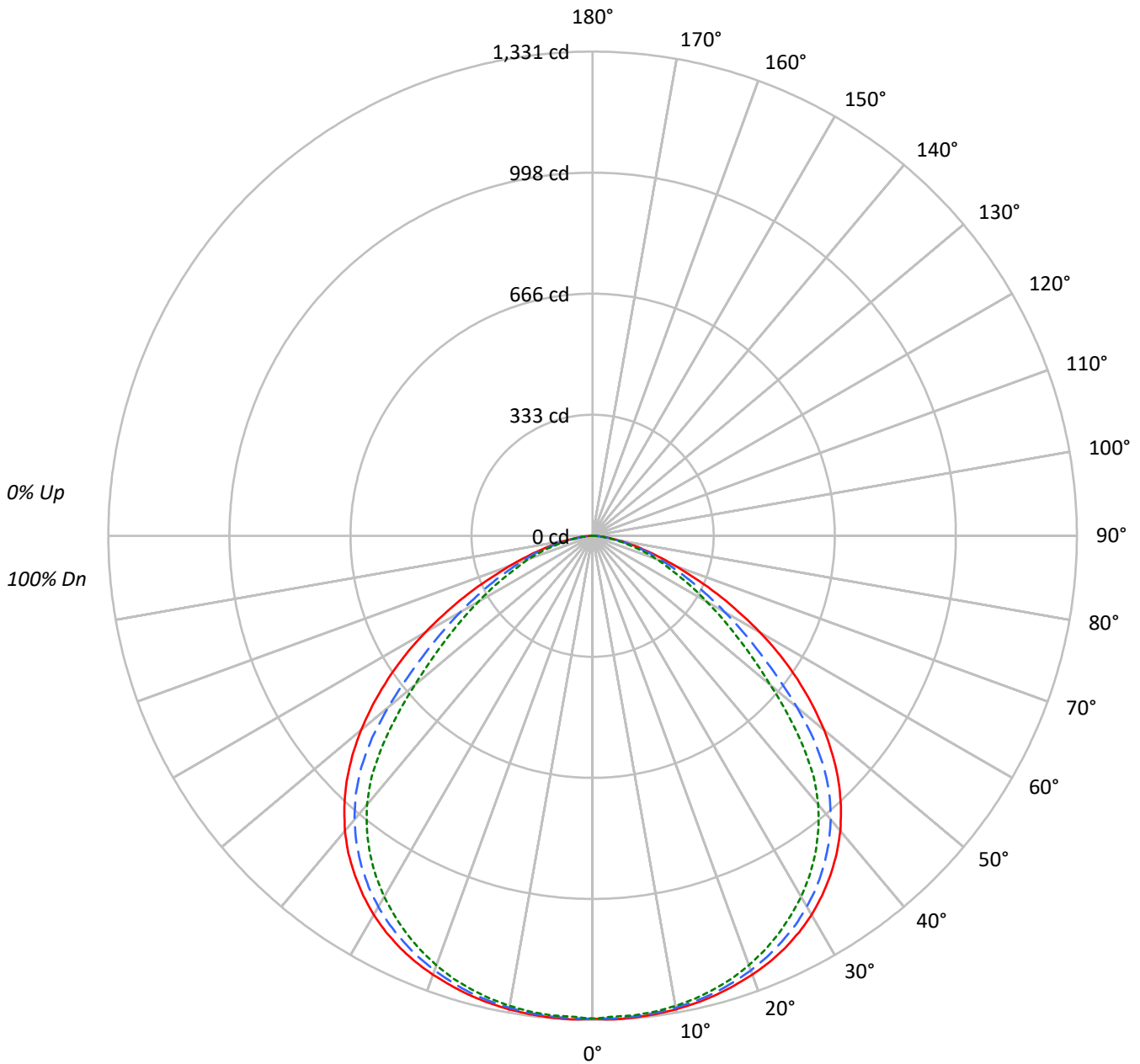
Test Method: LM-79-08  
Report Number: P412321  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-56)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 14PD-45-PB1-L927  
Description: 4500 LUMEN 1X4 PERCEIVE LED TROFFER WITH BEVEL PATTERN OPTICS AND 90 CRI, 2700 CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3422.0 lumens  
Efficiency: N/A  
Efficacy: 79.8 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				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	99	107	104	100	97	99	96	94	95	93	91	92	90	88	86				86
2	101	93	87	82	98	92	86	81	88	83	79	85	81	77	82	79	76	74				74
3	93	83	75	69	90	81	74	69	78	72	67	76	71	66	73	69	65	63				63
4	85	74	66	59	83	73	65	59	70	63	58	68	62	57	66	61	57	55				55
5	78	66	58	51	76	65	57	51	63	56	51	61	55	50	59	54	50	48				48
6	73	60	51	45	71	59	51	45	57	50	45	56	49	44	54	48	44	42				42
7	67	54	46	40	66	54	46	40	52	45	40	51	44	39	49	44	39	37				37
8	63	50	42	36	61	49	41	36	48	41	36	47	40	35	45	40	35	33				33
9	59	46	38	32	57	45	37	32	44	37	32	43	37	32	42	36	32	30				30
10	55	42	34	29	54	42	34	29	41	34	29	40	33	29	39	33	29	27				27

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

	0°	45°	90°
0°	3572	3572	3572
5°	3591	3583	3574
10°	3612	3600	3586
15°	3641	3623	3595
20°	3676	3641	3597
25°	3714	3655	3586
30°	3739	3659	3560
35°	3742	3639	3505
40°	3720	3576	3389
45°	3639	3420	3111
50°	3478	3064	2667
55°	3221	2627	2278
60°	2861	2255	1947
65°	2401	1924	1667
70°	1903	1635	1470
75°	1488	1334	1169
80°	1108	995	897
85°	735	648	596



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	126.2	3.7
10°-20°	366.9	10.7
20°-30°	566.5	16.6
30°-40°	689.5	20.1
40°-50°	682.3	19.9
50°-60°	514.1	15.0
60°-70°	308.9	9.0
70°-80°	139.2	4.1
80°-90°	28.5	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°	1059.6	31.0
0°-40°	1749.1	51.1
0°-60°	2945.4	86.1
0°-90°	3422.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3422.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1328	1328	1328	1328	1328	
5°	1329	1324	1326	1325	1323	127
15°	1307	1301	1300	1295	1291	370
25°	1251	1241	1231	1214	1208	577
35°	1139	1126	1108	1080	1067	712
45°	956	940	899	844	818	735
55°	686	638	560	505	486	611
65°	377	342	302	270	262	375
75°	143	136	128	116	112	156
85°	24	24	21	20	19	31
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1327.5	1327.5	1327.5	1327.5	1327.5
2.5°	1330.9	1325.3	1328.1	1327.5	1323.0
5°	1329.2	1324.1	1326.4	1325.3	1323.0
7.5°	1326.4	1321.3	1323.0	1321.3	1319.0
10°	1321.9	1316.2	1317.3	1313.9	1312.2
12.5°	1315.6	1308.8	1309.9	1305.4	1303.1
15°	1307.1	1300.8	1300.3	1295.2	1290.6
17.5°	1296.3	1290.1	1286.7	1281.0	1275.9
20°	1283.8	1275.9	1271.3	1261.1	1256.0
22.5°	1269.0	1260.5	1253.2	1239.0	1233.8
25°	1250.9	1241.2	1231.0	1214.5	1207.7
27.5°	1228.7	1218.5	1206.6	1188.4	1178.2
30°	1203.2	1192.4	1177.6	1156.6	1145.8
32.5°	1173.1	1161.2	1145.3	1120.3	1108.9
35°	1139.0	1126.5	1107.8	1080.5	1066.9
37.5°	1102.1	1087.9	1065.8	1032.8	1019.2
40°	1059.0	1044.8	1018.1	980.0	964.7
42.5°	1010.1	995.9	963.6	918.1	899.4
45°	956.2	939.7	898.8	843.8	817.6
47.5°	896.0	875.0	821.6	754.0	727.9
50°	830.7	802.9	731.9	662.6	637.1
52.5°	759.7	724.5	642.8	580.9	556.5
55°	686.5	638.2	559.9	505.3	485.5
57.5°	610.4	552.5	487.2	439.5	420.7
60°	531.5	475.3	419.0	375.3	361.7
62.5°	450.8	404.8	358.3	318.0	310.6
65°	377.0	341.8	302.1	270.3	261.8
67.5°	302.6	282.8	252.1	230.5	220.9
70°	241.9	228.8	207.8	190.2	186.8
72.5°	189.1	180.6	172.6	157.3	151.0
75°	143.1	135.7	128.3	116.4	112.4
77.5°	103.3	100.5	94.3	86.3	84.6
80°	71.5	71.5	64.2	59.6	57.9
82.5°	44.3	48.3	40.3	37.5	35.8
85°	23.8	24.4	21.0	19.9	19.3
87.5°	9.1	10.2	9.7	7.9	7.9
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)