

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: P412313

Luminaire Tested: **14PD-40-PB1-L930**

Issue Date: 9/15/2020



**Test Information**

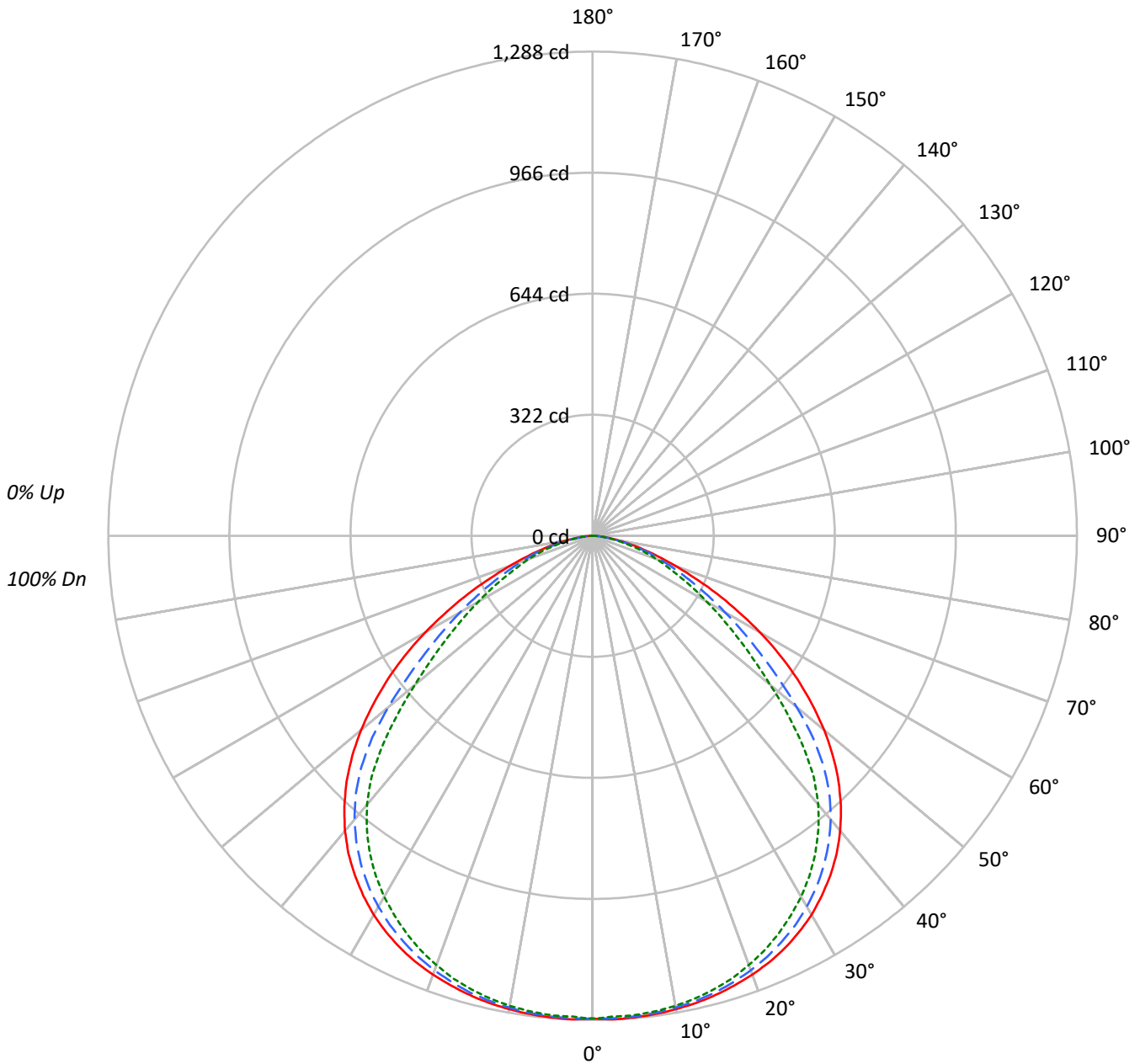
Test Method: LM-79-08  
Report Number: P412313  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-56)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 14PD-40-PB1-L930  
Description: 4000 LUMEN 1X4 PERCEIVE LED TROFFER WITH BEVEL PATTERN OPTICS AND 90 CRI, 3000 CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3311.0 lumens  
Efficiency: N/A  
Efficacy: 87.6 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): 37.8  
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°	3457	3457	3457
5°	3474	3467	3458
10°	3495	3483	3469
15°	3523	3505	3479
20°	3557	3523	3480
25°	3594	3537	3470
30°	3617	3540	3445
35°	3620	3521	3391
40°	3599	3460	3279
45°	3521	3310	3011
50°	3365	2965	2581
55°	3116	2541	2204
60°	2767	2182	1884
65°	2323	1861	1613
70°	1841	1582	1422
75°	1439	1291	1131
80°	1072	962	868
85°	713	627	577



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	122.1	3.7
10°-20°	354.9	10.7
20°-30°	548.1	16.6
30°-40°	667.1	20.1
40°-50°	660.1	19.9
50°-60°	497.4	15.0
60°-70°	298.9	9.0
70°-80°	134.7	4.1
80°-90°	27.6	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°	1025.2	31.0
0°-40°	1692.3	51.1
0°-60°	2849.8	86.1
0°-90°	3311.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3311.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1284	1284	1284	1284	1284	
5°	1286	1281	1283	1282	1280	123
15°	1265	1259	1258	1253	1249	358
25°	1210	1201	1191	1175	1169	558
35°	1102	1090	1072	1046	1032	689
45°	925	909	870	816	791	711
55°	664	618	542	489	470	592
65°	365	331	292	262	253	362
75°	138	131	124	113	109	151
85°	23	24	20	19	19	30
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1284.5	1284.5	1284.5	1284.5	1284.5
2.5°	1287.8	1282.3	1285.0	1284.5	1280.1
5°	1286.1	1281.2	1283.4	1282.3	1280.1
7.5°	1283.4	1278.4	1280.1	1278.4	1276.2
10°	1279.0	1273.5	1274.6	1271.3	1269.6
12.5°	1272.9	1266.3	1267.4	1263.0	1260.8
15°	1264.7	1258.7	1258.1	1253.2	1248.8
17.5°	1254.3	1248.2	1244.9	1239.4	1234.5
20°	1242.2	1234.5	1230.1	1220.2	1215.2
22.5°	1227.9	1219.6	1212.5	1198.8	1193.8
25°	1210.3	1201.0	1191.1	1175.1	1168.6
27.5°	1188.9	1179.0	1167.5	1149.9	1140.0
30°	1164.2	1153.7	1139.4	1119.1	1108.7
32.5°	1135.0	1123.5	1108.1	1083.9	1073.0
35°	1102.1	1090.0	1071.9	1045.5	1032.3
37.5°	1066.4	1052.6	1031.2	999.3	986.2
40°	1024.6	1010.9	985.1	948.2	933.4
42.5°	977.4	963.6	932.3	888.4	870.2
45°	925.2	909.2	869.7	816.4	791.1
47.5°	866.9	846.6	795.0	729.6	704.3
50°	803.8	776.8	708.2	641.1	616.4
52.5°	735.1	701.0	621.9	562.0	538.4
55°	664.2	617.5	541.7	489.0	469.7
57.5°	590.6	534.6	471.4	425.2	407.1
60°	514.2	459.8	405.4	363.1	350.0
62.5°	436.2	391.7	346.7	307.7	300.5
65°	364.8	330.7	292.3	261.5	253.3
67.5°	292.8	273.6	243.9	223.1	213.7
70°	234.0	221.4	201.1	184.0	180.7
72.5°	182.9	174.7	167.0	152.2	146.1
75°	138.4	131.3	124.2	112.6	108.8
77.5°	100.0	97.2	91.2	83.5	81.9
80°	69.2	69.2	62.1	57.7	56.0
82.5°	42.9	46.7	39.0	36.3	34.6
85°	23.1	23.6	20.3	19.2	18.7
87.5°	8.8	9.9	9.3	7.7	7.7
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)