

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: P412312

Luminaire Tested: **14PD-40-PB1-L927**

Issue Date: 9/15/2020



**Test Information**

Test Method: LM-79-08  
Report Number: P412312  
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-L927  
Description: 4000 LUMEN 1X4 PERCEIVE LED TROFFER WITH BEVEL PATTERN OPTICS AND 90 CRI, 2700 CCT LEDS  
Light Source: -  
Ballast/Driver: -

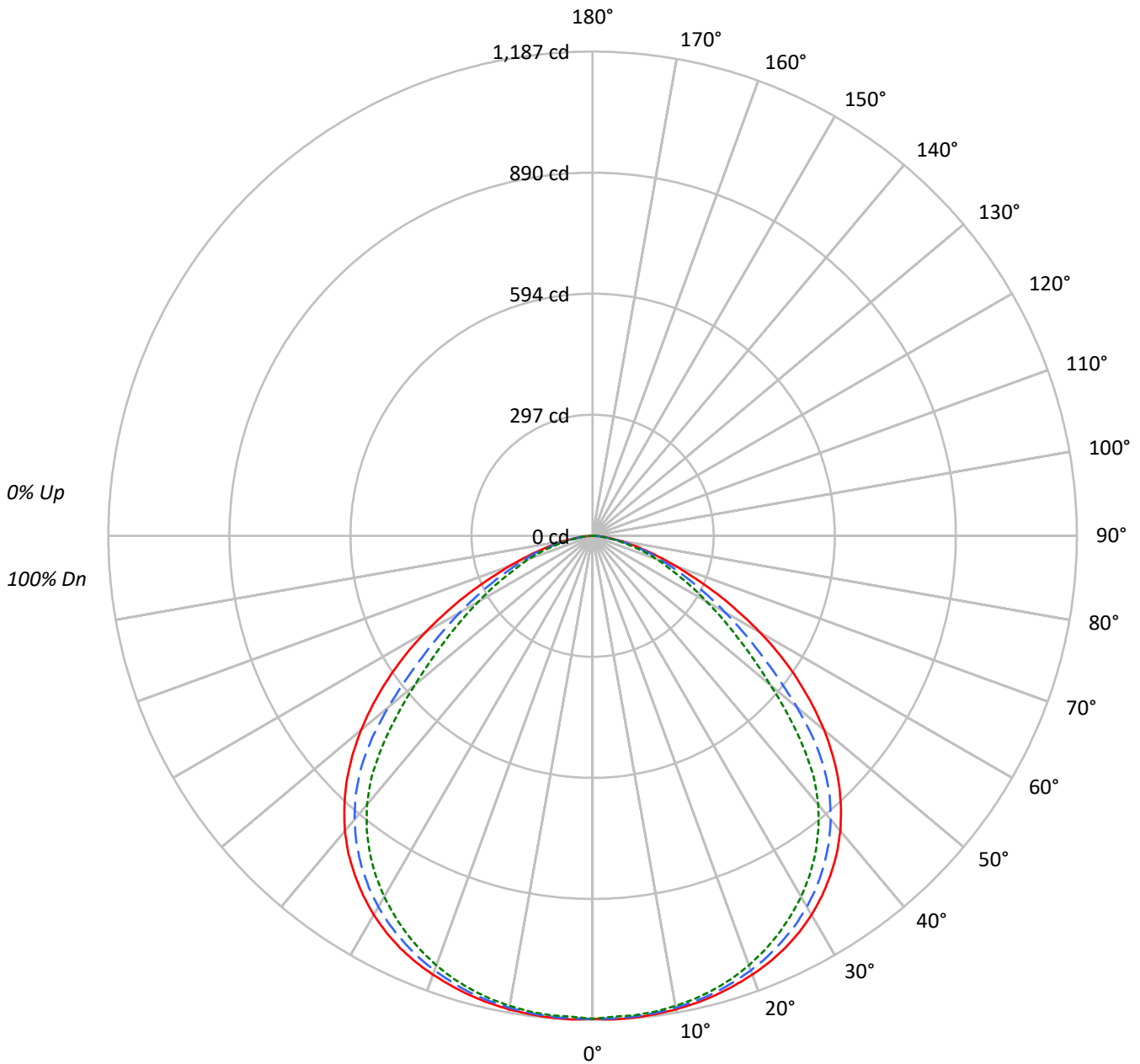
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3052.0 lumens  
Efficiency: N/A  
Efficacy: 80.7 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				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	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°	3186	3186	3186
5°	3202	3196	3187
10°	3221	3210	3198
15°	3248	3231	3207
20°	3279	3247	3208
25°	3312	3260	3198
30°	3334	3264	3175
35°	3337	3246	3126
40°	3318	3190	3022
45°	3245	3051	2775
50°	3102	2733	2379
55°	2873	2343	2031
60°	2551	2011	1736
65°	2141	1715	1487
70°	1697	1458	1311
75°	1327	1189	1043
80°	989	886	801
85°	658	577	531



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	112.6	3.7
10°-20°	327.2	10.7
20°-30°	505.3	16.6
30°-40°	614.9	20.1
40°-50°	608.5	19.9
50°-60°	458.5	15.0
60°-70°	275.5	9.0
70°-80°	124.2	4.1
80°-90°	25.4	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°	945.0	31.0
0°-40°	1559.9	51.1
0°-60°	2626.9	86.1
0°-90°	3052.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3052.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1184	1184	1184	1184	1184	
5°	1186	1181	1183	1182	1180	113
15°	1166	1160	1160	1155	1151	330
25°	1116	1107	1098	1083	1077	514
35°	1016	1005	988	964	952	635
45°	853	838	802	752	729	655
55°	612	569	499	451	433	545
65°	336	305	269	241	234	334
75°	128	121	114	104	100	139
85°	21	22	19	18	17	27
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1184.0	1184.0	1184.0	1184.0	1184.0
2.5°	1187.0	1182.0	1184.5	1184.0	1179.9
5°	1185.5	1181.0	1183.0	1182.0	1179.9
7.5°	1183.0	1178.4	1179.9	1178.4	1176.4
10°	1178.9	1173.9	1174.9	1171.8	1170.3
12.5°	1173.4	1167.3	1168.3	1164.2	1162.2
15°	1165.8	1160.2	1159.7	1155.1	1151.1
17.5°	1156.1	1150.6	1147.5	1142.5	1137.9
20°	1145.0	1137.9	1133.9	1124.7	1120.2
22.5°	1131.8	1124.2	1117.7	1105.0	1100.4
25°	1115.6	1107.0	1097.9	1083.2	1077.1
27.5°	1095.9	1086.8	1076.1	1059.9	1050.8
30°	1073.1	1063.5	1050.3	1031.6	1021.9
32.5°	1046.3	1035.6	1021.4	999.2	989.0
35°	1015.9	1004.7	988.0	963.7	951.6
37.5°	982.9	970.3	950.5	921.2	909.0
40°	944.5	931.8	908.0	874.1	860.4
42.5°	900.9	888.2	859.4	818.9	802.2
45°	852.8	838.1	801.7	752.5	729.2
47.5°	799.1	780.4	732.8	672.5	649.2
50°	740.9	716.1	652.8	591.0	568.2
52.5°	677.6	646.2	573.3	518.1	496.3
55°	612.3	569.2	499.3	450.7	433.0
57.5°	544.4	492.7	434.5	392.0	375.3
60°	474.0	423.9	373.7	334.7	322.6
62.5°	402.1	361.1	319.5	283.6	277.0
65°	336.3	304.9	269.4	241.1	233.5
67.5°	269.9	252.2	224.8	205.6	197.0
70°	215.7	204.1	185.3	169.6	166.6
72.5°	168.6	161.0	153.9	140.3	134.7
75°	127.6	121.0	114.4	103.8	100.3
77.5°	92.2	89.6	84.1	77.0	75.5
80°	63.8	63.8	57.2	53.2	51.7
82.5°	39.5	43.0	36.0	33.4	31.9
85°	21.3	21.8	18.7	17.7	17.2
87.5°	8.1	9.1	8.6	7.1	7.1
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)