

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: P412316

Luminaire Tested: **14PD-40-PB1-L950**

Issue Date: 9/15/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P412316  
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-L950  
Description: 4000 LUMEN 1X4 PERCEIVE LED TROFFER WITH BEVEL PATTERN OPTICS AND 90 CRI, 5000 CCT LEDS  
Light Source: -  
Ballast/Driver: -

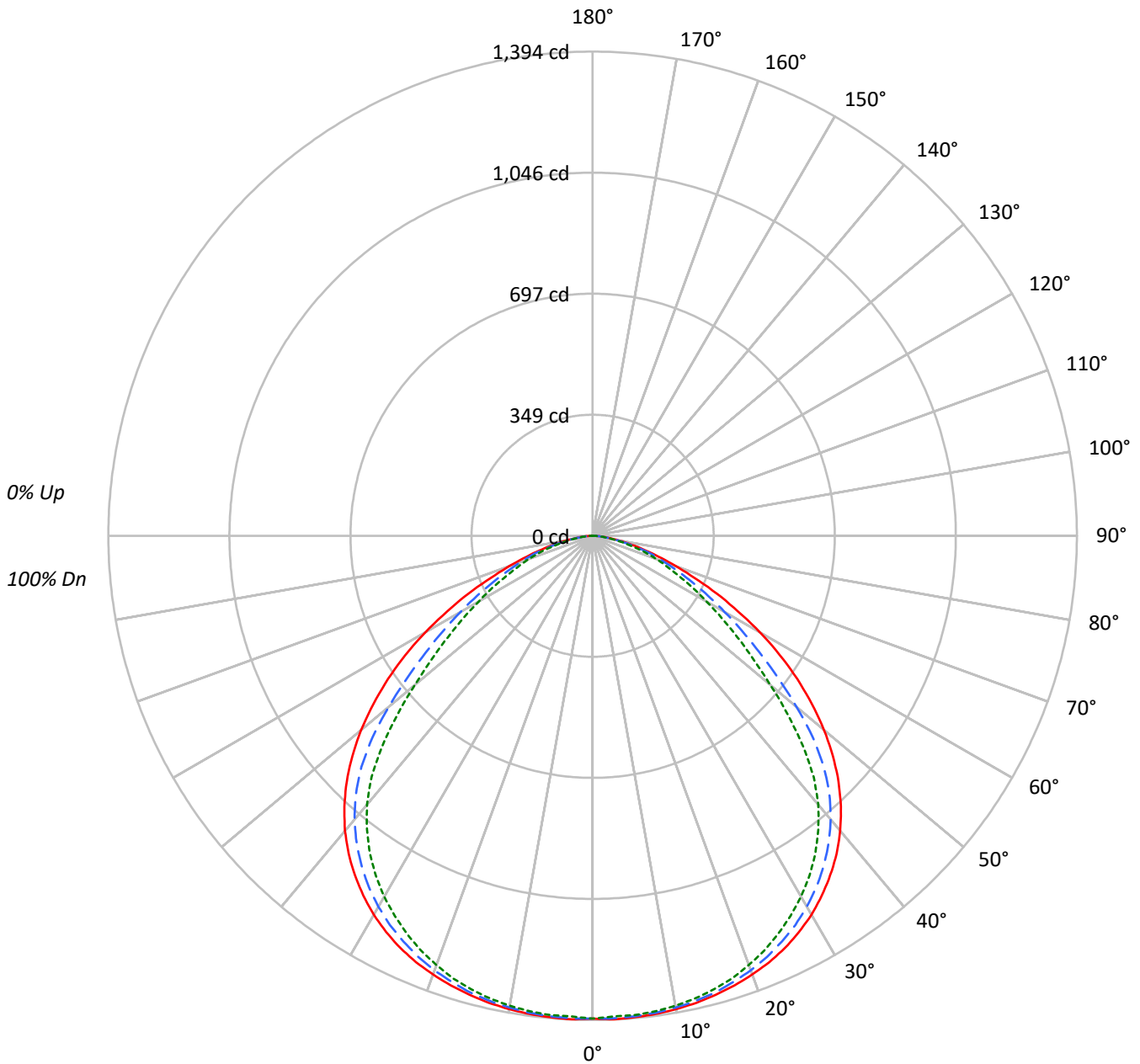
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3583.0 lumens  
Efficiency: N/A  
Efficacy: 94.8 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): 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°	3740	3740	3740
5°	3760	3752	3742
10°	3782	3769	3754
15°	3813	3793	3765
20°	3849	3812	3766
25°	3889	3827	3755
30°	3915	3831	3728
35°	3918	3810	3670
40°	3895	3745	3548
45°	3810	3581	3258
50°	3641	3208	2793
55°	3372	2750	2385
60°	2995	2362	2038
65°	2514	2014	1745
70°	1993	1712	1539
75°	1557	1397	1224
80°	1161	1041	939
85°	772	679	624



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	132.2	3.7
10°-20°	384.1	10.7
20°-30°	593.2	16.6
30°-40°	721.9	20.1
40°-50°	714.4	19.9
50°-60°	538.2	15.0
60°-70°	323.4	9.0
70°-80°	145.8	4.1
80°-90°	29.8	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°	1109.4	31.0
0°-40°	1831.3	51.1
0°-60°	3083.9	86.1
0°-90°	3583.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3583.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1390	1390	1390	1390	1390	
5°	1392	1386	1389	1388	1385	133
15°	1369	1362	1362	1356	1351	387
25°	1310	1300	1289	1272	1264	604
35°	1193	1180	1160	1131	1117	746
45°	1001	984	941	884	856	769
55°	719	668	586	529	508	640
65°	395	358	316	283	274	392
75°	150	142	134	122	118	163
85°	25	26	22	21	20	32
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1390.0	1390.0	1390.0	1390.0	1390.0
2.5°	1393.6	1387.6	1390.6	1390.0	1385.2
5°	1391.8	1386.4	1388.8	1387.6	1385.2
7.5°	1388.8	1383.5	1385.2	1383.5	1381.1
10°	1384.0	1378.1	1379.3	1375.7	1373.9
12.5°	1377.5	1370.4	1371.6	1366.8	1364.4
15°	1368.6	1362.0	1361.5	1356.1	1351.3
17.5°	1357.3	1350.8	1347.2	1341.2	1335.9
20°	1344.2	1335.9	1331.1	1320.4	1315.1
22.5°	1328.8	1319.8	1312.1	1297.2	1291.9
25°	1309.7	1299.6	1288.9	1271.7	1264.5
27.5°	1286.5	1275.8	1263.4	1244.3	1233.6
30°	1259.8	1248.5	1233.0	1211.0	1199.7
32.5°	1228.3	1215.8	1199.2	1173.0	1161.1
35°	1192.6	1179.5	1159.9	1131.4	1117.1
37.5°	1154.0	1139.1	1115.9	1081.4	1067.2
40°	1108.8	1093.9	1066.0	1026.1	1010.1
42.5°	1057.7	1042.8	1008.9	961.3	941.7
45°	1001.2	983.9	941.1	883.5	856.1
47.5°	938.2	916.2	860.3	789.5	762.2
50°	869.8	840.7	766.3	693.8	667.1
52.5°	795.5	758.6	673.0	608.2	582.6
55°	718.8	668.2	586.2	529.1	508.3
57.5°	639.1	578.5	510.1	460.2	440.5
60°	556.5	497.6	438.8	393.0	378.7
62.5°	472.1	423.9	375.1	332.9	325.2
65°	394.8	357.9	316.3	283.0	274.1
67.5°	316.9	296.1	264.0	241.4	231.3
70°	253.3	239.6	217.6	199.2	195.6
72.5°	198.0	189.1	180.7	164.7	158.1
75°	149.8	142.1	134.4	121.9	117.7
77.5°	108.2	105.2	98.7	90.4	88.6
80°	74.9	74.9	67.2	62.4	60.6
82.5°	46.4	50.5	42.2	39.2	37.5
85°	25.0	25.6	22.0	20.8	20.2
87.5°	9.5	10.7	10.1	8.3	8.3
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)