

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: P412315

Luminaire Tested: **14PD-40-PB1-L940**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412315
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-L940
Description: 4000 LUMEN 1X4 PERCEIVE LED TROFFER WITH BEVEL PATTERN OPTICS AND 90 CRI, 4000 CCT LEDS
Light Source: -
Ballast/Driver: -

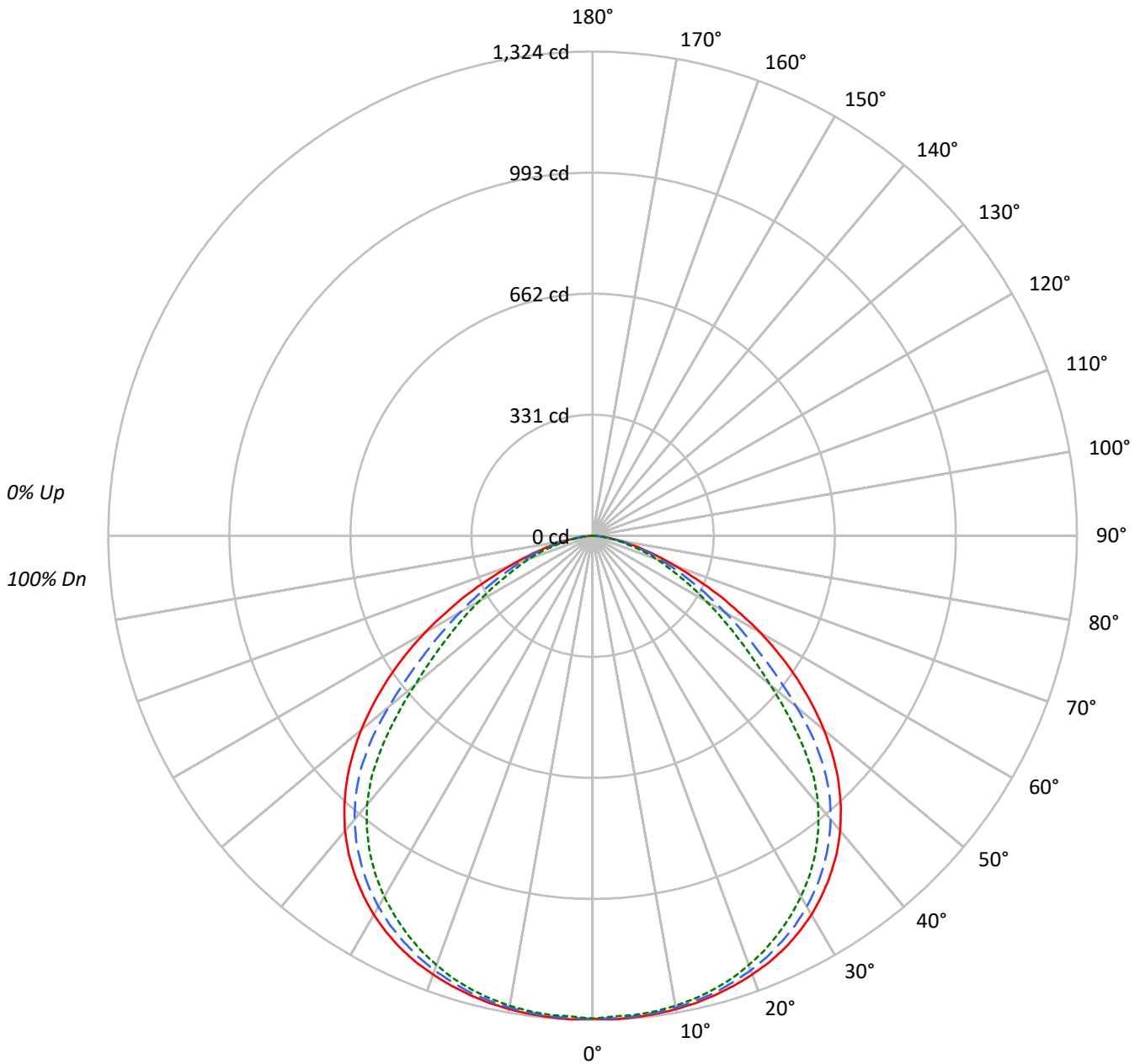
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3403.0 lumens
Efficiency: N/A
Efficacy: 90.0 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_{in}): 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°	3553	3553	3553
5°	3571	3563	3554
10°	3592	3580	3566
15°	3621	3602	3576
20°	3656	3621	3577
25°	3693	3635	3566
30°	3718	3639	3541
35°	3721	3619	3485
40°	3699	3556	3370
45°	3619	3401	3094
50°	3458	3047	2652
55°	3203	2612	2265
60°	2844	2243	1936
65°	2387	1913	1657
70°	1892	1626	1462
75°	1480	1327	1162
80°	1102	989	893
85°	732	645	593



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.5	3.7
10°-20°	364.8	10.7
20°-30°	563.4	16.6
30°-40°	685.6	20.1
40°-50°	678.5	19.9
50°-60°	511.2	15.0
60°-70°	307.2	9.0
70°-80°	138.5	4.1
80°-90°	28.4	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°	1053.7	31.0
0°-40°	1739.4	51.1
0°-60°	2929.0	86.1
0°-90°	3403.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3403.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1320	1320	1320	1320	1320	
5°	1322	1317	1319	1318	1316	126
15°	1300	1294	1293	1288	1284	367
25°	1244	1234	1224	1208	1201	573
35°	1133	1120	1102	1074	1061	708
45°	951	934	894	839	813	731
55°	683	635	557	502	483	608
65°	375	340	300	269	260	373
75°	142	135	128	116	112	155
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°	1320.2	1320.2	1320.2	1320.2	1320.2
2.5°	1323.6	1317.9	1320.7	1320.2	1315.6
5°	1321.9	1316.8	1319.0	1317.9	1315.6
7.5°	1319.0	1314.0	1315.6	1314.0	1311.7
10°	1314.5	1308.9	1310.0	1306.6	1304.9
12.5°	1308.3	1301.5	1302.7	1298.1	1295.9
15°	1299.8	1293.6	1293.1	1288.0	1283.5
17.5°	1289.1	1282.9	1279.5	1273.9	1268.8
20°	1276.7	1268.8	1264.3	1254.1	1249.0
22.5°	1262.0	1253.5	1246.2	1232.1	1227.0
25°	1243.9	1234.3	1224.2	1207.8	1201.0
27.5°	1221.9	1211.7	1199.9	1181.8	1171.7
30°	1196.5	1185.8	1171.1	1150.2	1139.5
32.5°	1166.6	1154.7	1138.9	1114.1	1102.8
35°	1132.7	1120.3	1101.6	1074.5	1061.0
37.5°	1096.0	1081.9	1059.9	1027.1	1013.6
40°	1053.1	1039.0	1012.4	974.6	959.3
42.5°	1004.5	990.4	958.2	913.0	894.4
45°	950.9	934.5	893.8	839.1	813.1
47.5°	891.0	870.1	817.1	749.9	723.9
50°	826.1	798.4	727.8	659.0	633.5
52.5°	755.5	720.5	639.2	577.6	553.4
55°	682.7	634.7	556.7	502.5	482.8
57.5°	607.0	549.4	484.5	437.0	418.4
60°	528.5	472.6	416.7	373.2	359.7
62.5°	448.3	402.6	356.3	316.2	308.9
65°	374.9	339.9	300.4	268.8	260.3
67.5°	301.0	281.2	250.7	229.2	219.7
70°	240.5	227.6	206.7	189.2	185.8
72.5°	188.0	179.6	171.7	156.4	150.2
75°	142.3	135.0	127.6	115.8	111.8
77.5°	102.8	99.9	93.7	85.8	84.1
80°	71.1	71.1	63.8	59.3	57.6
82.5°	44.0	48.0	40.1	37.3	35.6
85°	23.7	24.3	20.9	19.8	19.2
87.5°	9.0	10.2	9.6	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)