

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: P412999

Luminaire Tested: **14PD-40-PC3-L940**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412999
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-57)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 14PD-40-PC3-L940
Description: 4000 LUMEN 1X4 PERCEIVE LED TROFFER WITH PYRAMID PATTERN OPTICS AND 90 CRI, 4000 CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

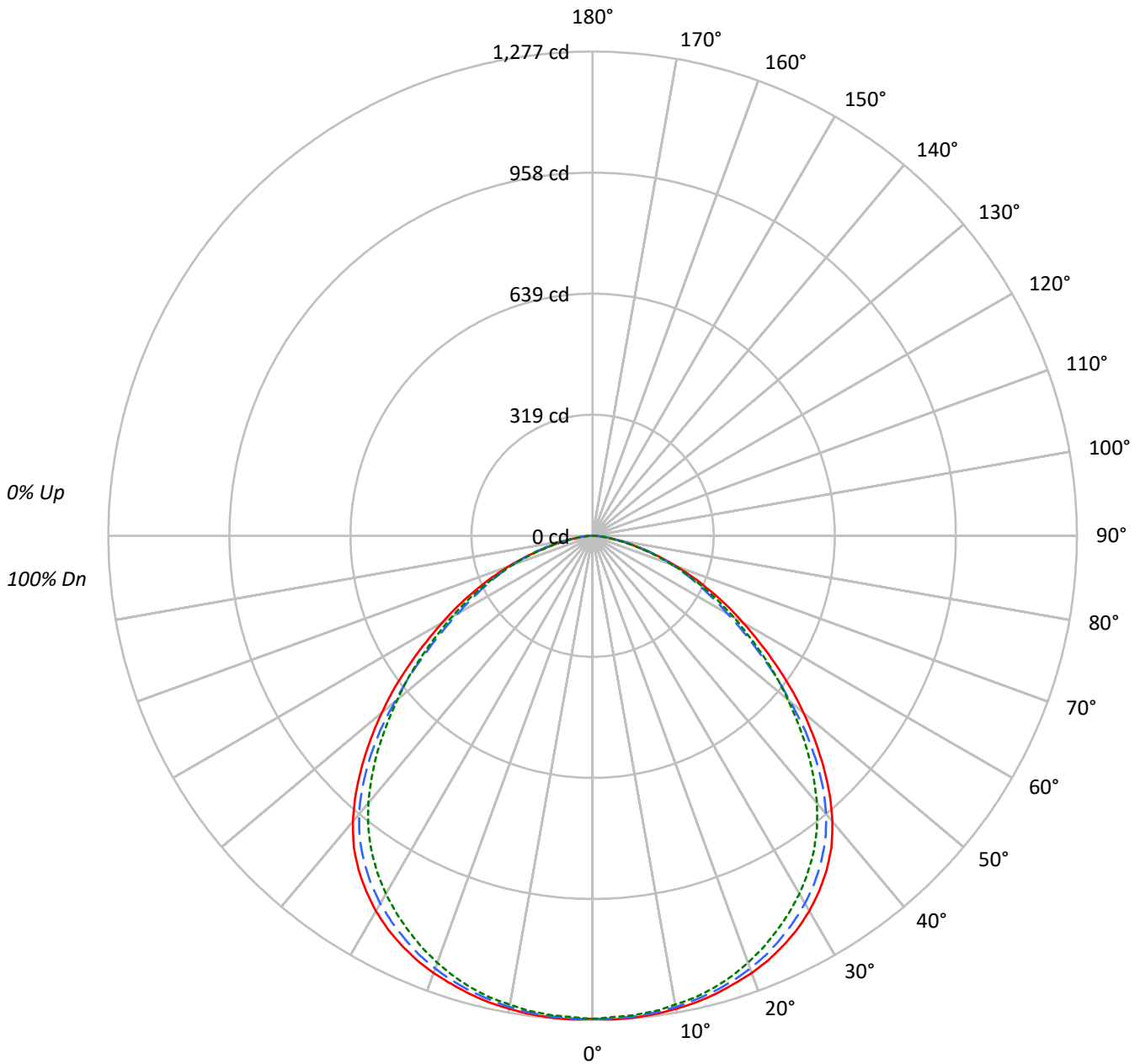
Lumens per Lamp: N/A
Luminaire Lumens: 3292.0 lumens
Efficiency: N/A
Efficacy: 87.1 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86																			
2	101	93	87	81	98	91	85	80	88	83	79	84	80	77	81	78	75	73																			
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	62																			
4	85	73	65	59	83	72	64	58	70	63	58	67	62	57	65	60	56	54																			
5	78	66	57	51	76	65	57	51	63	56	50	61	55	50	59	53	49	47																			
6	72	60	51	45	70	59	50	45	57	50	44	55	49	44	54	48	43	41																			
7	67	54	46	40	65	53	45	40	52	45	39	50	44	39	49	43	39	37																			
8	63	49	41	36	61	49	41	35	47	40	35	46	40	35	45	39	35	33																			
9	58	45	37	32	57	45	37	32	44	37	32	43	36	32	42	36	31	30																			
10	55	42	34	29	54	41	34	29	40	34	29	40	33	29	39	33	29	27																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3428	3428	3428
5°	3446	3437	3427
10°	3462	3448	3431
15°	3486	3464	3439
20°	3514	3478	3431
25°	3539	3482	3412
30°	3551	3479	3388
35°	3535	3450	3339
40°	3455	3366	3231
45°	3275	3163	3047
50°	3040	2846	2813
55°	2753	2509	2564
60°	2462	2209	2307
65°	2172	1981	2050
70°	1848	1755	1768
75°	1420	1497	1380
80°	1041	1094	1032
85°	698	766	750



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.0	3.7
10°-20°	350.9	10.7
20°-30°	539.7	16.4
30°-40°	653.1	19.8
40°-50°	637.6	19.4
50°-60°	492.7	15.0
60°-70°	316.4	9.6
70°-80°	149.3	4.5
80°-90°	31.3	1.0
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°	1011.7	30.7
0°-40°	1664.7	50.6
0°-60°	2795.0	84.9
0°-90°	3292.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3292.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1274	1274	1274	1274	1274	
5°	1276	1270	1272	1271	1269	121
15°	1251	1245	1243	1239	1234	354
25°	1192	1182	1173	1158	1149	549
35°	1076	1065	1050	1026	1016	671
45°	860	850	831	810	801	662
55°	587	558	535	535	547	526
65°	341	321	311	308	322	340
75°	137	139	144	132	133	150
85°	23	26	25	24	24	29
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1273.9	1273.9	1273.9	1273.9	1273.9
2.5°	1276.7	1271.6	1274.4	1274.4	1270.5
5°	1275.6	1269.9	1272.2	1271.0	1268.8
7.5°	1272.2	1266.5	1268.2	1267.1	1264.3
10°	1267.1	1260.9	1262.0	1259.7	1255.8
12.5°	1260.3	1254.7	1253.5	1250.1	1247.3
15°	1251.3	1245.1	1243.4	1238.8	1234.3
17.5°	1239.4	1233.2	1230.4	1223.6	1218.5
20°	1227.0	1219.6	1214.6	1204.4	1198.2
22.5°	1211.2	1202.7	1195.9	1181.8	1175.6
25°	1192.0	1182.4	1172.8	1157.5	1149.1
27.5°	1169.4	1159.2	1147.9	1131.0	1121.4
30°	1142.9	1132.7	1119.7	1100.5	1090.3
32.5°	1111.2	1101.1	1087.5	1065.5	1055.3
35°	1076.2	1064.9	1050.3	1026.5	1016.4
37.5°	1034.4	1022.0	1008.5	982.5	971.8
40°	983.6	972.9	958.2	932.2	919.8
42.5°	924.9	915.3	898.9	874.1	862.2
45°	860.5	849.8	831.2	809.7	800.7
47.5°	793.3	777.5	759.5	740.8	735.7
50°	726.1	705.8	679.8	670.2	671.9
52.5°	657.3	631.3	608.7	601.4	609.8
55°	586.7	558.4	534.7	535.3	546.6
57.5°	519.5	490.1	470.4	470.4	485.0
60°	457.4	430.3	410.5	409.9	428.6
62.5°	399.8	372.1	357.4	357.4	374.4
65°	341.1	320.7	311.1	307.7	321.9
67.5°	286.8	272.7	266.0	262.0	271.0
70°	234.9	225.9	223.0	218.5	224.7
72.5°	183.5	181.3	186.9	176.2	179.0
75°	136.6	138.9	144.0	132.1	132.7
77.5°	98.2	102.8	104.5	98.8	98.8
80°	67.2	72.8	70.6	67.8	66.6
82.5°	42.9	45.7	45.7	44.0	42.9
85°	22.6	26.0	24.8	24.3	24.3
87.5°	8.5	11.9	11.9	11.3	10.7
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)