

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: P412992

Luminaire Tested: **14PD-40-PC3-L830**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412992
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-L830
Description: 4000 LUMEN 1X4 PERCEIVE LED TROFFER WITH PYRAMID PATTERN OPTICS AND 80 CRI, 3000 CCT LEDS
Light Source: -
Ballast/Driver: -

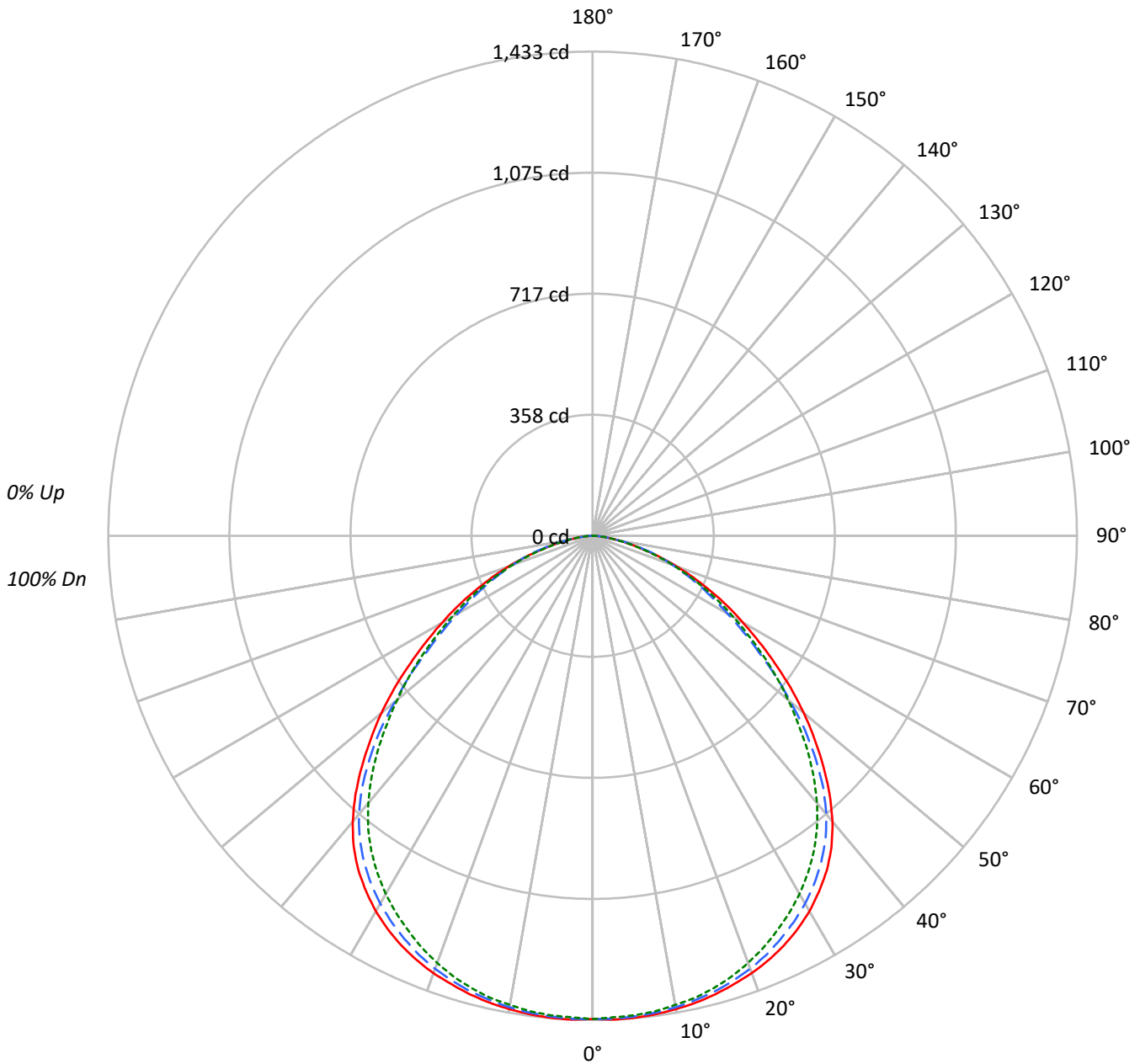
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3696.0 lumens
Efficiency: N/A
Efficacy: 97.8 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

TEST NUMBER: P412992
CATALOG NUMBER: 14PD-40-PC3-L830

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°	3849	3849	3849
5°	3868	3858	3848
10°	3887	3872	3853
15°	3914	3889	3861
20°	3945	3905	3852
25°	3974	3910	3831
30°	3987	3906	3804
35°	3969	3873	3749
40°	3879	3779	3628
45°	3677	3551	3421
50°	3413	3195	3158
55°	3090	2816	2879
60°	2764	2481	2590
65°	2438	2224	2301
70°	2075	1970	1985
75°	1595	1681	1549
80°	1168	1227	1159
85°	784	861	843



TEST NUMBER: P412992

CATALOG NUMBER: 14PD-40-PC3-L830

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.9	3.7
10°-20°	394.0	10.7
20°-30°	605.9	16.4
30°-40°	733.2	19.8
40°-50°	715.8	19.4
50°-60°	553.2	15.0
60°-70°	355.2	9.6
70°-80°	167.6	4.5
80°-90°	35.2	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°	1135.8	30.7
0°-40°	1869.0	50.6
0°-60°	3138.0	84.9
0°-90°	3696.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3696.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1430	1430	1430	1430	1430	
5°	1432	1426	1428	1427	1424	136
15°	1405	1398	1396	1391	1386	397
25°	1338	1328	1317	1300	1290	617
35°	1208	1196	1179	1152	1141	753
45°	966	954	933	909	899	743
55°	659	627	600	601	614	590
65°	383	360	349	346	361	381
75°	153	156	162	148	149	168
85°	25	29	28	27	27	33
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1430.2	1430.2	1430.2	1430.2	1430.2
2.5°	1433.4	1427.7	1430.8	1430.8	1426.4
5°	1432.1	1425.7	1428.3	1427.0	1424.5
7.5°	1428.3	1421.9	1423.8	1422.6	1419.4
10°	1422.6	1415.6	1416.9	1414.3	1409.9
12.5°	1415.0	1408.6	1407.4	1403.6	1400.4
15°	1404.8	1397.9	1396.0	1390.9	1385.8
17.5°	1391.5	1384.5	1381.4	1373.8	1368.1
20°	1377.6	1369.3	1363.6	1352.2	1345.2
22.5°	1359.8	1350.3	1342.7	1326.9	1319.9
25°	1338.3	1327.5	1316.7	1299.6	1290.1
27.5°	1312.9	1301.5	1288.8	1269.8	1259.0
30°	1283.1	1271.7	1257.1	1235.6	1224.2
32.5°	1247.6	1236.2	1221.0	1196.3	1184.8
35°	1208.3	1195.6	1179.1	1152.5	1141.1
37.5°	1161.4	1147.4	1132.2	1103.1	1091.0
40°	1104.3	1092.3	1075.8	1046.6	1032.7
42.5°	1038.4	1027.6	1009.2	981.4	968.0
45°	966.1	954.1	933.2	909.1	898.9
47.5°	890.7	872.9	852.7	831.7	826.0
50°	815.3	792.4	763.3	752.5	754.4
52.5°	737.9	708.8	683.4	675.2	684.7
55°	658.7	627.0	600.3	601.0	613.7
57.5°	583.2	550.3	528.1	528.1	544.6
60°	513.5	483.1	460.9	460.2	481.2
62.5°	448.8	417.8	401.3	401.3	420.3
65°	382.9	360.1	349.3	345.5	361.4
67.5°	322.0	306.2	298.6	294.2	304.3
70°	263.7	253.6	250.4	245.3	252.3
72.5°	206.0	203.5	209.8	197.8	201.0
75°	153.4	156.0	161.7	148.3	149.0
77.5°	110.3	115.4	117.3	110.9	110.9
80°	75.4	81.8	79.2	76.1	74.8
82.5°	48.2	51.3	51.3	49.4	48.2
85°	25.4	29.2	27.9	27.3	27.3
87.5°	9.5	13.3	13.3	12.7	12.0
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)