

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: P413017

Luminaire Tested: **14PD-50-PC3-L940**

Issue Date: 9/15/2020

Test Information

Test Method: LM-79-08
Report Number: P413017
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-50-PC3-L940
Description: 5000 LUMEN 1X4 PERCEIVE LED TROFFER WITH PYRAMID PATTERN OPTICS AND 90 CRI, 4000 CCT LEDS
Light Source: -
Ballast/Driver: -

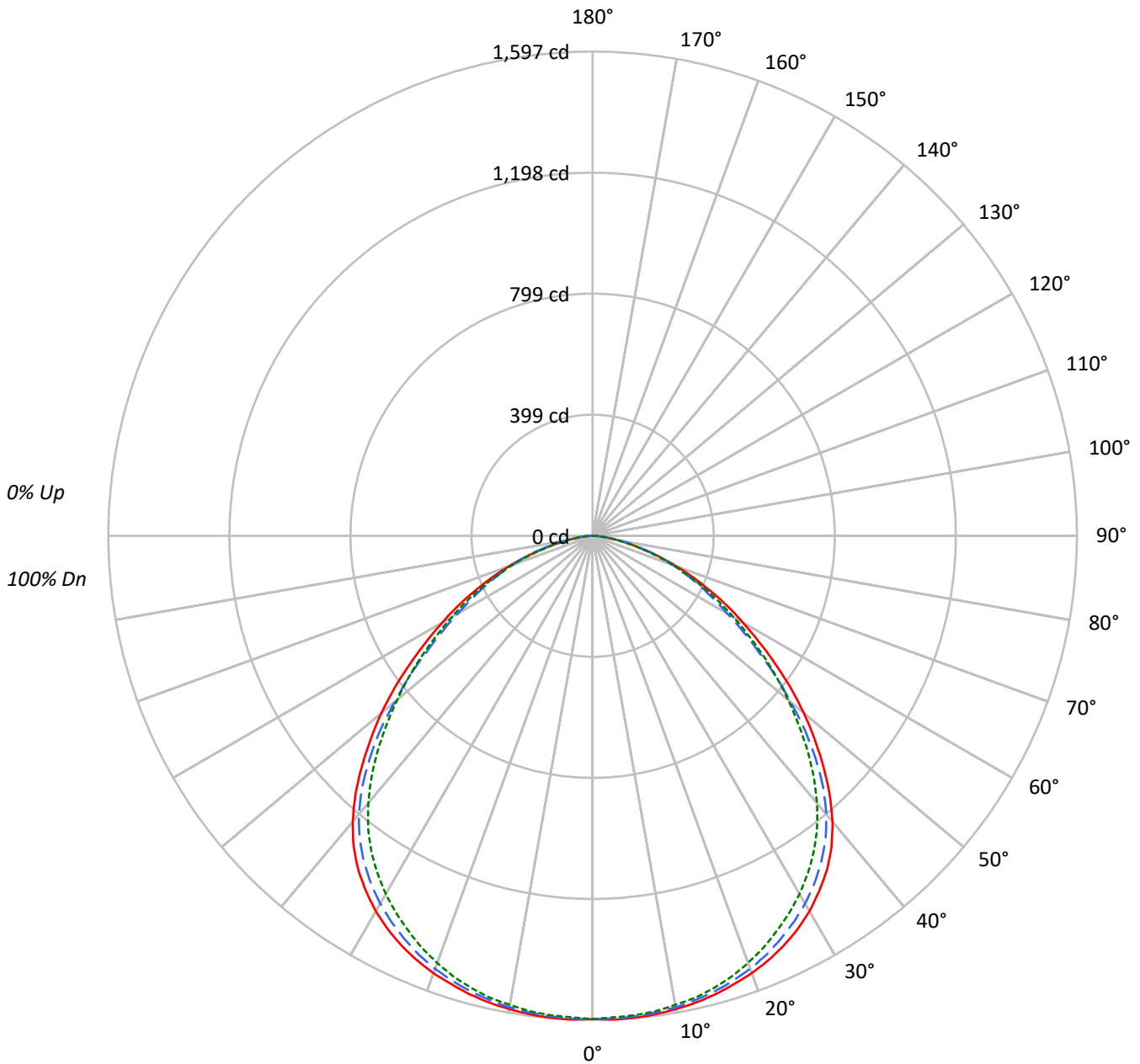
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4119.0 lumens
Efficiency: N/A
Efficacy: 84.8 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): 48.6
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: P413017
CATALOG NUMBER: 14PD-50-PC3-L940

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°	4289	4289	4289
5°	4311	4300	4288
10°	4332	4315	4294
15°	4362	4334	4303
20°	4396	4352	4293
25°	4428	4357	4269
30°	4443	4353	4239
35°	4424	4317	4178
40°	4323	4212	4043
45°	4098	3958	3812
50°	3804	3561	3520
55°	3444	3139	3209
60°	3080	2764	2886
65°	2717	2479	2564
70°	2312	2196	2212
75°	1778	1874	1726
80°	1303	1368	1292
85°	874	960	939



TEST NUMBER: P413017

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.4	3.7
10°-20°	439.1	10.7
20°-30°	675.3	16.4
30°-40°	817.1	19.8
40°-50°	797.7	19.4
50°-60°	616.4	15.0
60°-70°	395.9	9.6
70°-80°	186.8	4.5
80°-90°	39.2	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°	1265.8	30.7
0°-40°	2082.9	50.6
0°-60°	3497.1	84.9
0°-90°	4119.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4119.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1594	1594	1594	1594	1594	
5°	1596	1589	1592	1590	1588	152
15°	1566	1558	1556	1550	1544	442
25°	1491	1479	1467	1448	1438	687
35°	1347	1332	1314	1284	1272	840
45°	1077	1063	1040	1013	1002	828
55°	734	699	669	670	684	658
65°	427	401	389	385	403	425
75°	171	174	180	165	166	188
85°	28	32	31	30	30	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1593.9	1593.9	1593.9	1593.9	1593.9
2.5°	1597.4	1591.0	1594.6	1594.6	1589.6
5°	1596.0	1588.9	1591.7	1590.3	1587.5
7.5°	1591.7	1584.7	1586.8	1585.4	1581.9
10°	1585.4	1577.6	1579.0	1576.2	1571.3
12.5°	1576.9	1569.8	1568.4	1564.2	1560.7
15°	1565.6	1557.8	1555.7	1550.1	1544.4
17.5°	1550.8	1543.0	1539.5	1531.0	1524.6
20°	1535.2	1526.0	1519.7	1507.0	1499.2
22.5°	1515.4	1504.8	1496.4	1478.7	1470.9
25°	1491.4	1479.4	1467.4	1448.3	1437.7
27.5°	1463.2	1450.4	1436.3	1415.1	1403.1
30°	1430.0	1417.2	1401.0	1377.0	1364.3
32.5°	1390.4	1377.7	1360.7	1333.2	1320.5
35°	1346.6	1332.5	1314.1	1284.4	1271.7
37.5°	1294.3	1278.8	1261.8	1229.3	1215.9
40°	1230.7	1217.3	1198.9	1166.4	1150.9
42.5°	1157.3	1145.2	1124.8	1093.7	1078.8
45°	1076.7	1063.3	1040.0	1013.1	1001.8
47.5°	992.6	972.9	950.2	926.9	920.6
50°	908.6	883.1	850.6	838.6	840.7
52.5°	822.4	789.9	761.6	752.4	763.0
55°	734.1	698.7	669.1	669.8	683.9
57.5°	650.0	613.2	588.5	588.5	606.9
60°	572.3	538.4	513.6	512.9	536.2
62.5°	500.2	465.6	447.2	447.2	468.4
65°	426.7	401.3	389.3	385.0	402.7
67.5°	358.9	341.2	332.8	327.8	339.1
70°	293.9	282.6	279.1	273.4	281.2
72.5°	229.6	226.8	233.9	220.4	224.0
75°	171.0	173.8	180.2	165.3	166.0
77.5°	122.9	128.6	130.7	123.6	123.6
80°	84.1	91.1	88.3	84.8	83.4
82.5°	53.7	57.2	57.2	55.1	53.7
85°	28.3	32.5	31.1	30.4	30.4
87.5°	10.6	14.8	14.8	14.1	13.4
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)