

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: P413008

Luminaire Tested: **14PD-45-PC3-L940**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P413008
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-45-PC3-L940
Description: 4500 LUMEN 1X4 PERCEIVE LED TROFFER WITH PYRAMID PATTERN OPTICS AND 90 CRI, 4000 CCT LEDS
Light Source: -
Ballast/Driver: -

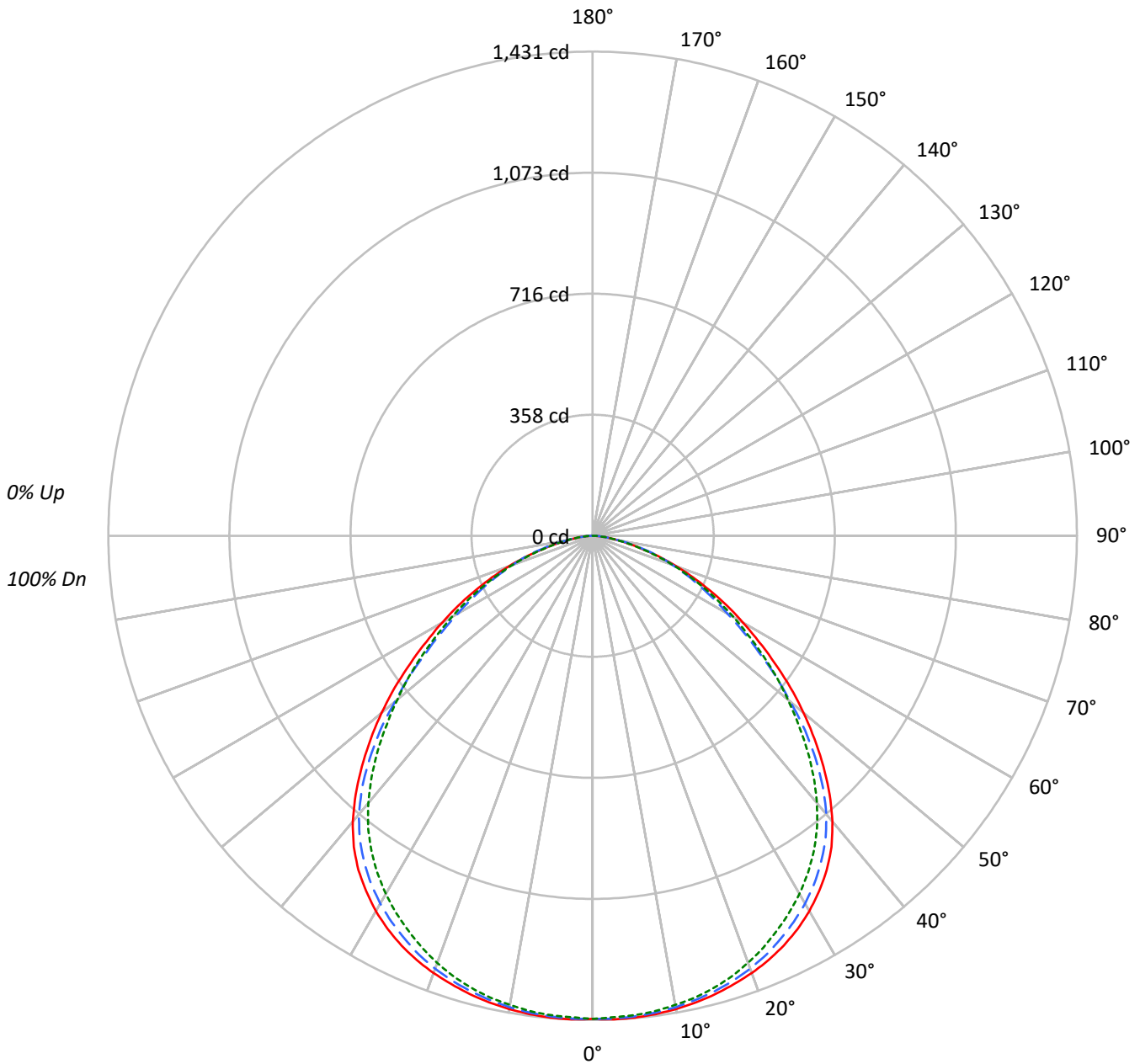
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3690.0 lumens
Efficiency: N/A
Efficacy: 86.0 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): 42.9
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°	3842	3842	3842
5°	3862	3852	3842
10°	3881	3865	3846
15°	3907	3883	3855
20°	3938	3899	3846
25°	3967	3903	3824
30°	3980	3900	3798
35°	3963	3867	3743
40°	3873	3773	3622
45°	3671	3546	3416
50°	3407	3190	3153
55°	3085	2812	2875
60°	2759	2476	2585
65°	2434	2220	2297
70°	2072	1967	1982
75°	1593	1678	1546
80°	1167	1226	1158
85°	781	858	840



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.7	3.7
10°-20°	393.3	10.7
20°-30°	605.0	16.4
30°-40°	732.0	19.8
40°-50°	714.7	19.4
50°-60°	552.2	15.0
60°-70°	354.6	9.6
70°-80°	167.4	4.5
80°-90°	35.1	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°	1134.0	30.7
0°-40°	1866.0	50.6
0°-60°	3132.9	84.9
0°-90°	3690.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3690.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1428	1428	1428	1428	1428	
5°	1430	1423	1426	1425	1422	136
15°	1402	1396	1394	1389	1384	396
25°	1336	1325	1315	1298	1288	616
35°	1206	1194	1177	1151	1139	752
45°	965	952	932	908	898	742
55°	658	626	599	600	613	589
65°	382	360	349	345	361	381
75°	153	156	161	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°	1427.9	1427.9	1427.9	1427.9	1427.9
2.5°	1431.0	1425.3	1428.5	1428.5	1424.1
5°	1429.8	1423.4	1426.0	1424.7	1422.2
7.5°	1426.0	1419.6	1421.5	1420.3	1417.1
10°	1420.3	1413.3	1414.6	1412.0	1407.6
12.5°	1412.7	1406.3	1405.1	1401.3	1398.1
15°	1402.5	1395.6	1393.7	1388.6	1383.6
17.5°	1389.3	1382.3	1379.1	1371.5	1365.8
20°	1375.3	1367.1	1361.4	1350.0	1343.1
22.5°	1357.6	1348.1	1340.5	1324.7	1317.7
25°	1336.1	1325.3	1314.6	1297.5	1288.0
27.5°	1310.8	1299.4	1286.7	1267.7	1257.0
30°	1281.0	1269.6	1255.1	1233.6	1222.2
32.5°	1245.6	1234.2	1219.0	1194.3	1182.9
35°	1206.3	1193.7	1177.2	1150.6	1139.3
37.5°	1159.5	1145.6	1130.4	1101.3	1089.3
40°	1102.5	1090.5	1074.1	1044.9	1031.0
42.5°	1036.7	1026.0	1007.6	979.8	966.5
45°	964.6	952.5	931.7	907.6	897.5
47.5°	889.3	871.5	851.3	830.4	824.7
50°	813.9	791.1	762.0	751.3	753.2
52.5°	736.7	707.6	682.3	674.1	683.6
55°	657.6	626.0	599.4	600.0	612.7
57.5°	582.3	549.4	527.2	527.2	543.7
60°	512.7	482.3	460.1	459.5	480.4
62.5°	448.1	417.1	400.6	400.6	419.6
65°	382.3	359.5	348.7	344.9	360.8
67.5°	321.5	305.7	298.1	293.7	303.8
70°	263.3	253.2	250.0	244.9	251.9
72.5°	205.7	203.2	209.5	197.5	200.6
75°	153.2	155.7	161.4	148.1	148.7
77.5°	110.1	115.2	117.1	110.8	110.8
80°	75.3	81.6	79.1	76.0	74.7
82.5°	48.1	51.3	51.3	49.4	48.1
85°	25.3	29.1	27.8	27.2	27.2
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)