

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: P412659

Luminaire Tested: **14PD-45-PP3-L830**

Issue Date: 9/15/2020

Test Information

Test Method: LM-79-08
Report Number: P412659
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-47)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 14PD-45-PP3-L830
Description: 4500 LUMEN 1X4 PERCEIVE LED TROFFER WITH PRISM PATTERN OPTICS AND 80 CRI, 3000 CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

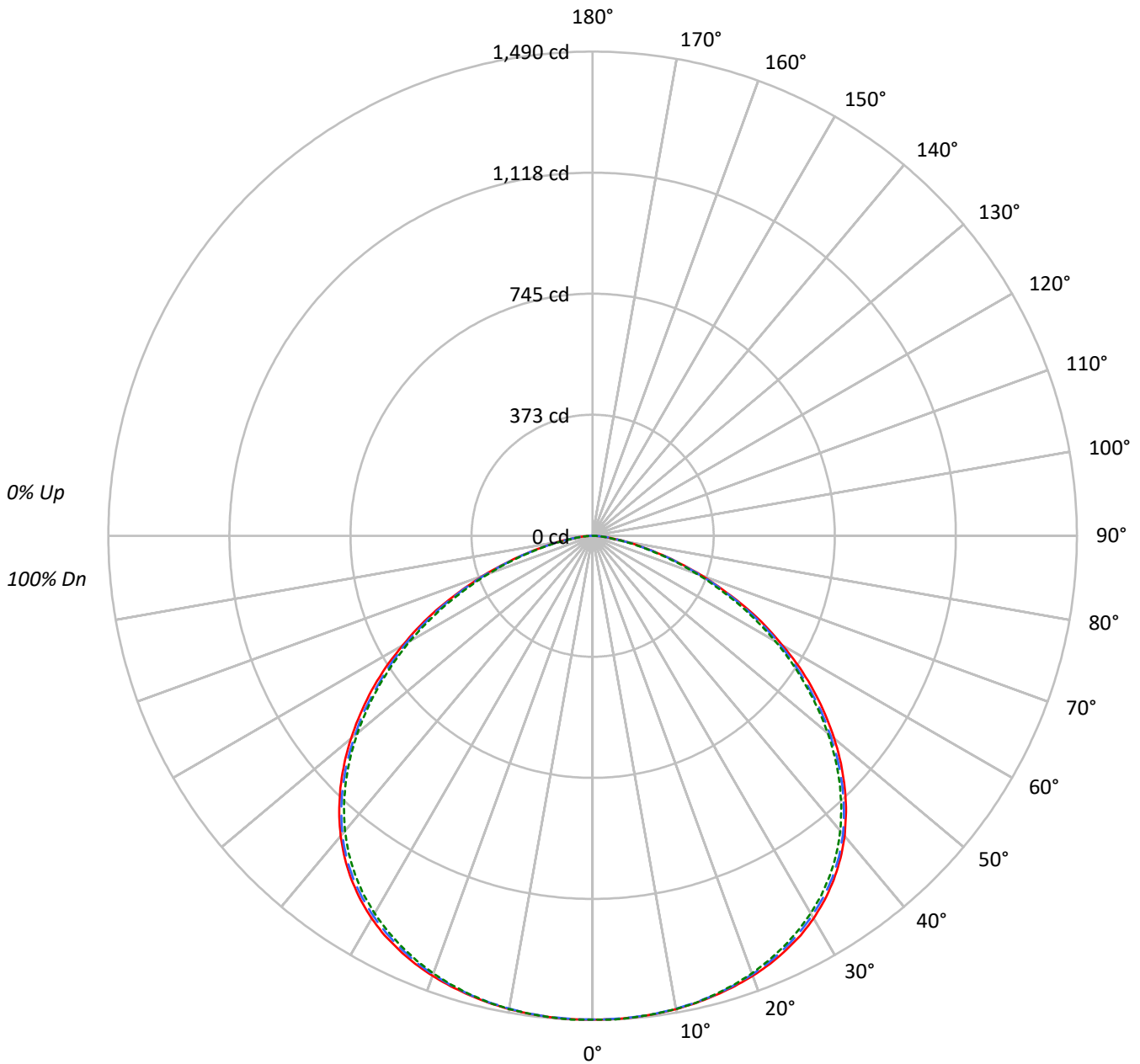
Lumens per Lamp: N/A
Luminaire Lumens: 4332.0 lumens
Efficiency: N/A
Efficacy: 101.0 lumens/watt
Spacing Criteria (0/90/45): 1.35 / 1.33 / 1.43
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P412659

CATALOG NUMBER: 14PD-45-PP3-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	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85																			
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	71																			
3	91	81	73	66	89	79	72	66	76	70	65	73	68	64	71	66	63	60																			
4	83	72	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54	52																			
5	77	64	55	49	75	63	54	48	61	53	48	59	52	47	57	51	47	45																			
6	71	58	49	42	69	57	48	42	55	47	42	53	46	41	52	46	41	39																			
7	66	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34																			
8	61	47	39	33	59	47	39	33	45	38	33	44	38	33	43	37	32	31																			
9	57	44	35	30	55	43	35	30	42	35	30	41	34	29	40	34	29	27																			
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4006	4006	4006
5°	4017	4016	4018
10°	4042	4037	4041
15°	4078	4072	4069
20°	4127	4113	4103
25°	4179	4157	4138
30°	4225	4196	4169
35°	4248	4222	4184
40°	4237	4211	4164
45°	4176	4135	4089
50°	4062	3996	3954
55°	3894	3800	3751
60°	3627	3565	3492
65°	3289	3223	3129
70°	2806	2755	2667
75°	2192	2170	2066
80°	1616	1550	1463
85°	976	976	908



TEST NUMBER: P412659

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.6	3.3
10°-20°	413.3	9.5
20°-30°	646.0	14.9
30°-40°	802.9	18.5
40°-50°	836.5	19.3
50°-60°	725.9	16.8
60°-70°	499.1	11.5
70°-80°	225.3	5.2
80°-90°	41.3	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°	1201.0	27.7
0°-40°	2003.9	46.3
0°-60°	3566.3	82.3
0°-90°	4332.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4332.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1489	1489	1489	1489	1489	
5°	1487	1488	1487	1485	1488	142
15°	1464	1464	1462	1460	1461	414
25°	1407	1407	1400	1394	1394	649
35°	1293	1293	1285	1278	1274	808
45°	1097	1098	1087	1078	1074	845
55°	830	825	810	800	800	740
65°	516	514	506	494	491	510
75°	211	212	209	203	199	230
85°	32	31	32	31	29	43
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1488.8	1488.8	1488.8	1488.8	1488.8
2.5°	1489.2	1489.2	1488.3	1487.1	1490.1
5°	1487.1	1487.5	1486.6	1485.3	1487.5
7.5°	1484.0	1484.5	1483.2	1481.9	1483.6
10°	1479.3	1478.8	1477.5	1476.7	1478.8
12.5°	1472.3	1471.9	1470.6	1469.7	1471.5
15°	1463.7	1463.7	1461.5	1460.2	1460.6
17.5°	1453.3	1453.3	1450.3	1447.2	1448.1
20°	1441.2	1440.7	1436.4	1433.4	1432.9
22.5°	1426.0	1426.0	1419.9	1416.1	1414.8
25°	1407.4	1407.0	1400.0	1394.4	1393.5
27.5°	1386.2	1385.3	1377.1	1371.5	1369.3
30°	1359.8	1358.9	1350.3	1344.2	1341.6
32.5°	1328.6	1329.9	1319.9	1313.0	1310.4
35°	1293.1	1293.1	1285.3	1278.0	1273.6
37.5°	1252.4	1252.4	1245.1	1237.7	1232.5
40°	1206.1	1206.5	1198.7	1189.6	1185.3
42.5°	1154.1	1155.0	1144.6	1137.3	1132.5
45°	1097.4	1097.9	1086.6	1078.4	1074.5
47.5°	1036.0	1035.1	1022.5	1015.6	1011.7
50°	970.2	968.4	954.6	948.1	944.6
52.5°	901.3	897.9	885.7	876.2	873.2
55°	829.9	825.1	810.0	800.5	799.6
57.5°	755.4	749.8	737.2	728.2	724.7
60°	674.0	672.7	662.4	651.5	648.9
62.5°	597.9	594.0	584.9	571.9	570.6
65°	516.5	514.3	506.1	494.0	491.4
67.5°	432.5	434.6	427.7	416.9	413.4
70°	356.7	358.0	350.2	340.3	339.0
72.5°	280.5	282.7	276.2	269.7	268.4
75°	210.8	211.7	208.7	203.0	198.7
77.5°	149.8	152.8	149.4	145.5	142.0
80°	104.3	99.6	100.0	98.3	94.4
82.5°	62.8	60.6	60.2	58.4	56.7
85°	31.6	31.2	31.6	31.2	29.4
87.5°	10.4	11.3	11.7	11.7	10.8
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)