

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: P505949

Luminaire Tested: **14PD-45-PL1-L930**

Issue Date: 3/26/2021



Test Information

Test Method: LM-79-08
Report Number: P505949
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2102-132-7)
Test Lab: INNOVATION CENTER
Issue Date: 3/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 14PD-45-PL1-L930
Description: 4500 LUMEN, 1X4 PERCEIVE LED LUMINAIRE WITH LEAVES LENS AND 90 CRI,
3000K LEDS
Light Source: -
Ballast/Driver: -

Summary

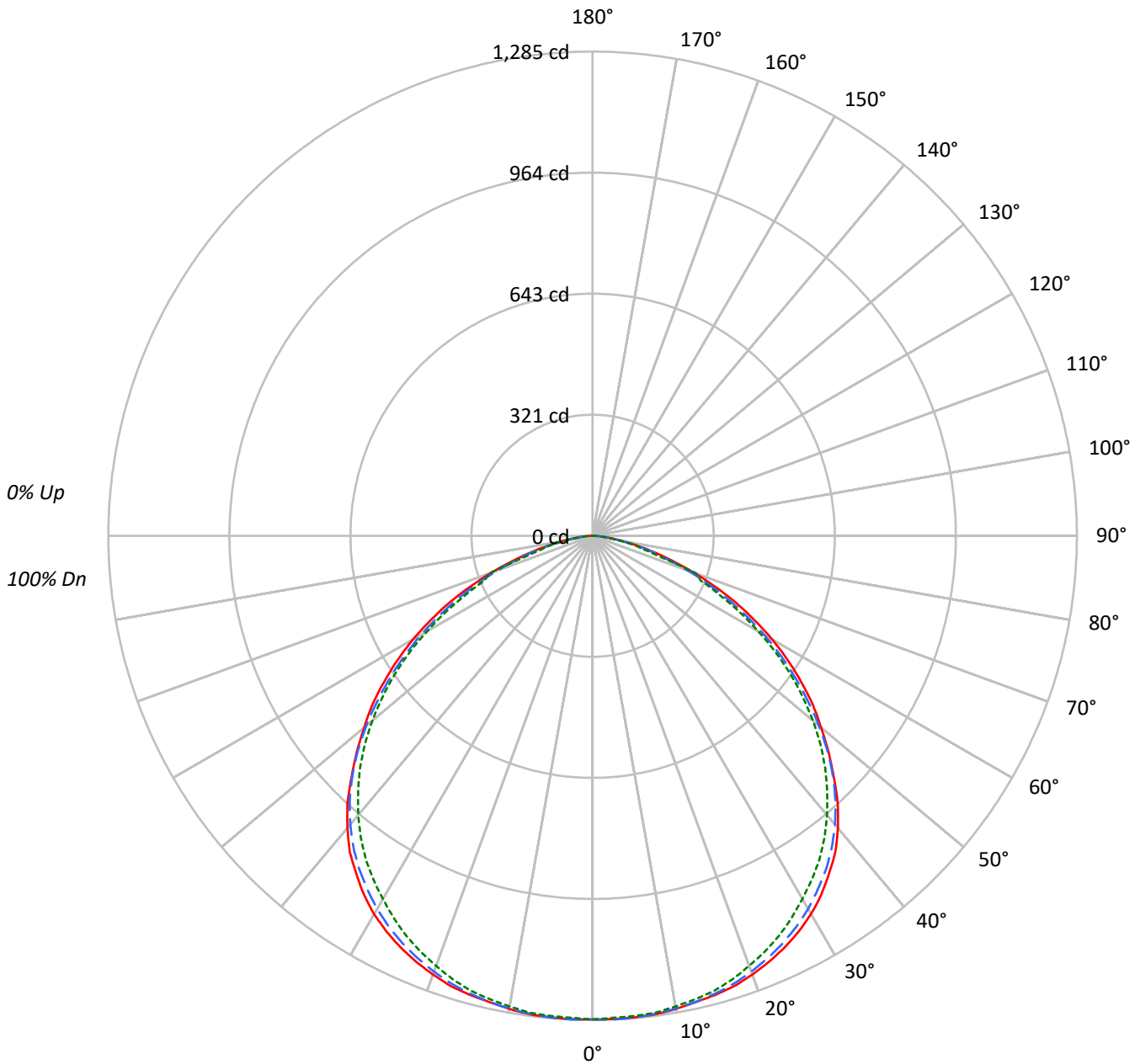
Lumens per Lamp: N/A
Luminaire Lumens: 3567.8 lumens
Efficiency: N/A
Efficacy: 83.2 lumens/watt
Spacing Criteria (0/90/45): 1.33 / 1.29 / 1.41
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	87	85																			
2	100	92	86	80	97	90	84	79	87	82	78	84	79	76	81	77	74	72																			
3	91	81	73	67	89	80	72	67	77	71	65	74	69	64	72	67	63	61																			
4	84	72	64	57	82	71	63	57	68	61	56	66	60	55	64	59	55	52																			
5	77	65	56	49	75	63	55	49	61	54	49	59	53	48	58	52	47	45																			
6	71	58	49	43	69	57	49	43	55	48	43	54	47	42	52	46	42	40																			
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35																			
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31																			
9	57	44	36	31	56	44	36	30	42	35	30	41	35	30	40	34	30	28																			
10	54	41	33	28	53	40	33	28	39	32	27	38	32	27	37	31	27	25																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3454	3454	3454
5°	3466	3468	3456
10°	3484	3481	3465
15°	3513	3504	3482
20°	3549	3525	3478
25°	3579	3543	3477
30°	3603	3553	3459
35°	3594	3548	3446
40°	3556	3514	3398
45°	3442	3431	3321
50°	3311	3282	3193
55°	3168	3076	3006
60°	2959	2827	2731
65°	2666	2500	2365
70°	2230	2091	2296
75°	1759	1693	1466
80°	1268	1125	1147
85°	806	676	630



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.1	3.4
10°-20°	354.8	9.9
20°-30°	548.5	15.4
30°-40°	671.3	18.8
40°-50°	688.2	19.3
50°-60°	586.2	16.4
60°-70°	391.7	11.0
70°-80°	173.6	4.9
80°-90°	31.4	0.9
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°	1025.3	28.7
0°-40°	1696.7	47.6
0°-60°	2971.0	83.3
0°-90°	3567.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3567.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1284	1284	1284	1284	1284	
5°	1283	1280	1284	1283	1279	122
15°	1261	1257	1258	1254	1250	357
25°	1205	1201	1193	1178	1171	556
35°	1094	1091	1080	1056	1049	684
45°	904	907	902	881	873	698
55°	675	672	656	642	641	603
65°	419	415	393	375	372	413
75°	169	171	163	164	141	183
85°	26	25	22	21	20	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1283.7	1283.7	1283.7	<i>1283.7</i>	1283.7
2.5°	<i>1283.7</i>	<i>1281.6</i>	<i>1285.1</i>	<i>1286.5</i>	<i>1280.2</i>
5°	1283.0	1280.2	1283.7	<i>1283.0</i>	1279.4
7.5°	1280.9	1275.9	1279.4	<i>1278.0</i>	1276.6
10°	1275.2	1271.0	1273.8	<i>1271.7</i>	1268.2
12.5°	1267.5	1264.6	1266.8	<i>1264.6</i>	1259.7
15°	1261.1	1256.9	1257.6	<i>1254.1</i>	1249.8
17.5°	1252.7	1246.3	1246.3	<i>1239.3</i>	1234.3
20°	1239.3	1233.6	1230.8	<i>1220.9</i>	1214.6
22.5°	1223.8	1219.5	1213.9	<i>1201.2</i>	1194.2
25°	1205.4	1201.2	1193.4	<i>1177.9</i>	1170.9
27.5°	1184.3	1178.6	1170.2	<i>1151.9</i>	1143.4
30°	1159.6	1152.6	1143.4	<i>1123.0</i>	1113.1
32.5°	1129.3	1124.4	1112.4	<i>1091.2</i>	1082.1
35°	1094.1	1091.2	1080.0	<i>1056.0</i>	1048.9
37.5°	1058.1	1052.5	1042.6	<i>1017.2</i>	1010.2
40°	1012.3	1008.8	1000.3	<i>975.6</i>	967.2
42.5°	962.9	960.8	953.8	<i>930.5</i>	921.3
45°	904.4	907.2	901.6	<i>881.2</i>	872.7
47.5°	848.7	847.3	845.2	<i>826.9</i>	819.8
50°	790.9	788.1	783.9	<i>769.1</i>	762.7
52.5°	736.7	731.0	719.7	<i>707.0</i>	702.8
55°	675.3	671.8	655.6	<i>642.2</i>	640.8
57.5°	613.3	611.2	591.4	<i>575.9</i>	575.9
60°	549.8	547.0	525.2	<i>509.0</i>	507.5
62.5°	483.6	481.5	458.9	<i>440.6</i>	441.3
65°	418.7	415.2	392.6	<i>375.0</i>	371.5
67.5°	351.1	349.6	327.8	<i>311.6</i>	310.2
70°	283.4	283.4	265.8	<i>251.7</i>	291.8
72.5°	223.5	221.3	207.2	<i>200.9</i>	191.7
75°	169.2	171.3	162.8	<i>163.5</i>	141.0
77.5°	120.5	117.0	113.5	<i>105.7</i>	112.1
80°	81.8	79.7	72.6	<i>70.5</i>	74.0
82.5°	50.8	51.5	45.1	<i>40.9</i>	40.2
85°	26.1	25.4	21.9	<i>21.1</i>	20.4
87.5°	9.9	10.6	9.2	<i>8.5</i>	7.8
90°	0.0	0.0	0.0	<i>0.0</i>	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC





— 0°-180° - - 45°-225° - - - - 90°-270°







(END OF REPORT)