

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: P505957

Luminaire Tested: **14PD-45-PR1-L927**

Issue Date: 3/26/2021



Test Information

Test Method: LM-79-08
Report Number: P505957
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2102-132-8)
Test Lab: INNOVATION CENTER
Issue Date: 3/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 14PD-45-PR1-L927
Description: 4500 LUMEN, 1X4 PERCEIVE LED LUMINAIRE WITH RIPPLE LENS AND 90 CRI,
2700K LEDS
Light Source: -
Ballast/Driver: -

Summary

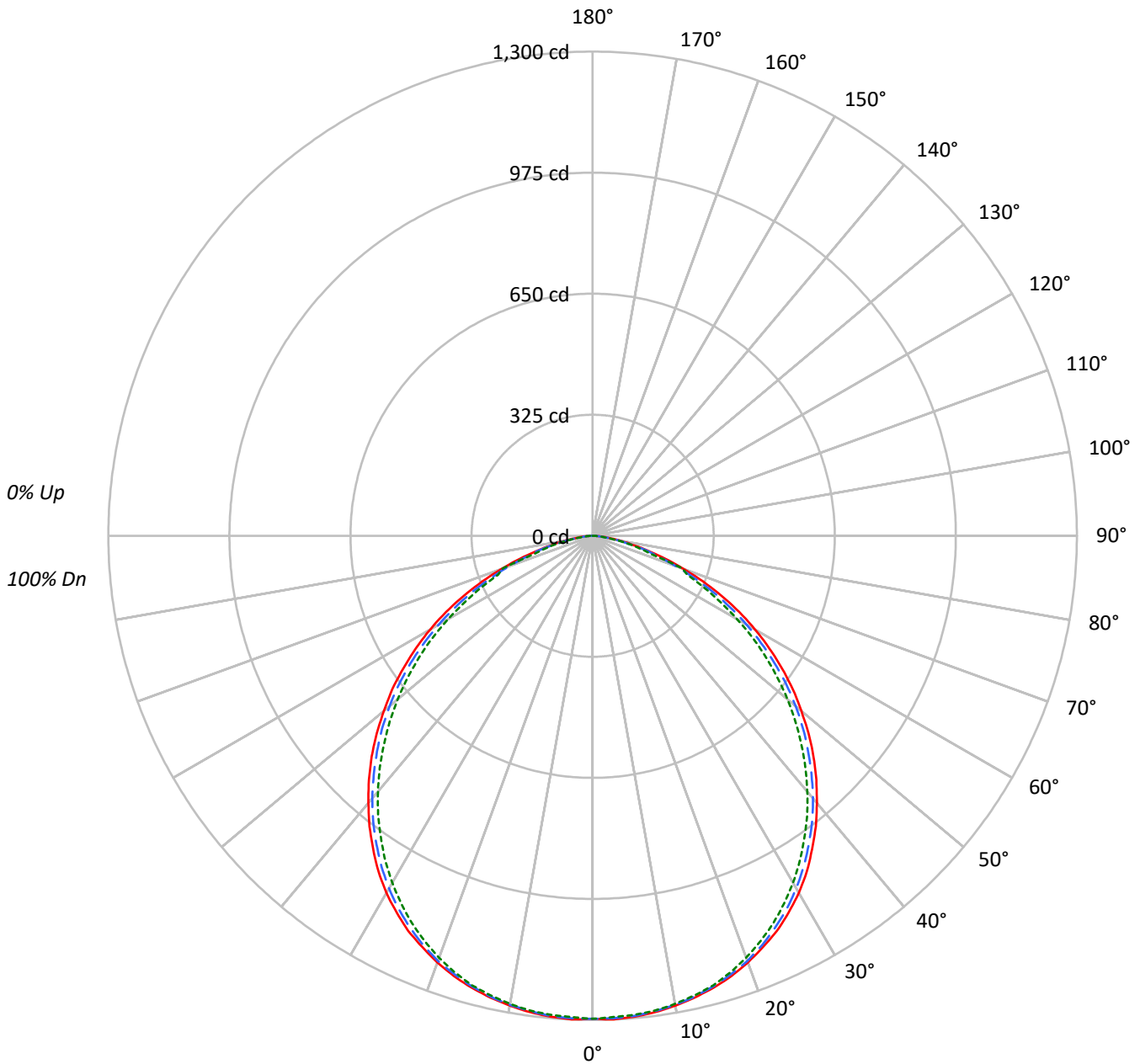
Lumens per Lamp: N/A
Luminaire Lumens: 3337.0 lumens
Efficiency: N/A
Efficacy: 77.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.23 / 1.34
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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	100	96	99	96	93	95	93	90	91	90	88	86																			
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73																			
3	92	82	74	68	89	80	73	67	77	71	66	75	69	65	72	68	64	62																			
4	84	73	64	58	82	72	64	58	69	62	57	67	61	56	65	60	55	53																			
5	78	65	57	50	76	64	56	50	62	55	49	60	54	49	58	53	48	46																			
6	72	59	50	44	70	58	50	44	56	49	43	55	48	43	53	47	43	41																			
7	67	54	45	39	65	53	45	39	51	44	39	50	43	38	48	43	38	36																			
8	62	49	41	35	61	48	40	35	47	40	35	46	39	34	45	39	34	32																			
9	58	45	37	31	57	44	37	31	43	36	31	42	36	31	41	35	31	29																			
10	54	41	34	29	53	41	34	29	40	33	28	39	33	28	38	32	28	26																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3489	3489	3489
5°	3501	3496	3487
10°	3501	3494	3487
15°	3500	3489	3482
20°	3491	3478	3452
25°	3476	3446	3408
30°	3440	3397	3342
35°	3373	3323	3256
40°	3289	3233	3150
45°	3192	3114	3016
50°	3060	2979	2858
55°	2911	2796	2663
60°	2710	2568	2409
65°	2433	2262	2114
70°	2046	1865	2017
75°	1576	1516	1362
80°	1134	1015	965
85°	695	596	534



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.9	3.7
10°-20°	353.1	10.6
20°-30°	533.4	16.0
30°-40°	631.0	18.9
40°-50°	629.2	18.9
50°-60°	531.5	15.9
60°-70°	354.2	10.6
70°-80°	153.8	4.6
80°-90°	27.9	0.8
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°	1009.4	30.2
0°-40°	1640.4	49.2
0°-60°	2801.1	83.9
0°-90°	3337.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3337.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1297	1297	1297	1297	1297	
5°	1296	1291	1294	1293	1291	123
15°	1256	1250	1252	1250	1250	355
25°	1171	1163	1160	1150	1148	539
35°	1027	1020	1012	998	991	642
45°	839	831	818	801	792	646
55°	620	616	596	577	568	554
65°	382	378	355	340	332	378
75°	152	148	146	141	131	166
85°	22	23	19	18	17	31
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1296.7	1296.7	1296.7	1296.7	1296.7
2.5°	1299.9	1294.1	1296.7	1296.7	1293.5
5°	1296.0	1290.9	1294.1	1292.8	1290.9
7.5°	1290.2	1285.1	1287.0	1286.4	1285.7
10°	1281.3	1276.1	1278.7	1277.4	1276.1
12.5°	1269.7	1264.6	1267.1	1265.2	1263.9
15°	1256.2	1250.4	1252.4	1250.4	1249.8
17.5°	1239.5	1233.7	1234.4	1231.8	1229.2
20°	1219.0	1213.8	1214.5	1208.0	1205.5
22.5°	1195.2	1190.1	1189.4	1181.1	1177.9
25°	1170.8	1163.1	1160.5	1150.2	1147.7
27.5°	1140.0	1132.9	1129.0	1118.1	1113.0
30°	1107.2	1099.5	1093.1	1080.9	1075.7
32.5°	1070.0	1062.3	1053.9	1041.1	1035.3
35°	1026.9	1019.9	1011.5	998.0	991.0
37.5°	983.9	976.2	967.8	951.8	946.0
40°	936.4	929.3	920.3	903.0	896.6
42.5°	888.8	880.5	869.6	852.9	845.8
45°	838.8	831.0	818.2	800.9	792.5
47.5°	786.1	779.7	766.2	747.6	738.6
50°	730.9	725.7	711.6	691.0	682.7
52.5°	678.2	671.1	655.1	634.5	625.5
55°	620.4	615.9	596.0	576.7	567.7
57.5°	562.6	556.8	536.9	517.6	509.3
60°	503.5	498.4	477.2	457.9	447.6
62.5°	443.8	438.0	415.5	398.2	388.6
65°	382.1	377.6	355.2	339.7	332.0
67.5°	320.5	317.3	293.5	280.7	274.9
70°	260.1	255.6	237.0	231.8	256.3
72.5°	204.2	198.4	182.4	174.0	167.6
75°	151.6	148.4	145.8	140.6	131.0
77.5°	106.6	106.0	97.0	89.9	97.0
80°	73.2	75.8	65.5	59.7	62.3
82.5°	45.0	50.1	39.2	34.7	33.4
85°	22.5	23.1	19.3	18.0	17.3
87.5°	8.3	9.6	8.3	7.1	7.1
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)