

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: P505984

Luminaire Tested: **14PD-50-PR1-L927**

Issue Date: 3/26/2021



Test Information

Test Method: LM-79-08
Report Number: P505984
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-50-PR1-L927
Description: 5000 LUMEN, 1X4 PERCEIVE LED LUMINAIRE WITH RIPPLE LENS AND 90 CRI,
2700K LEDS
Light Source: -
Ballast/Driver: -

Summary

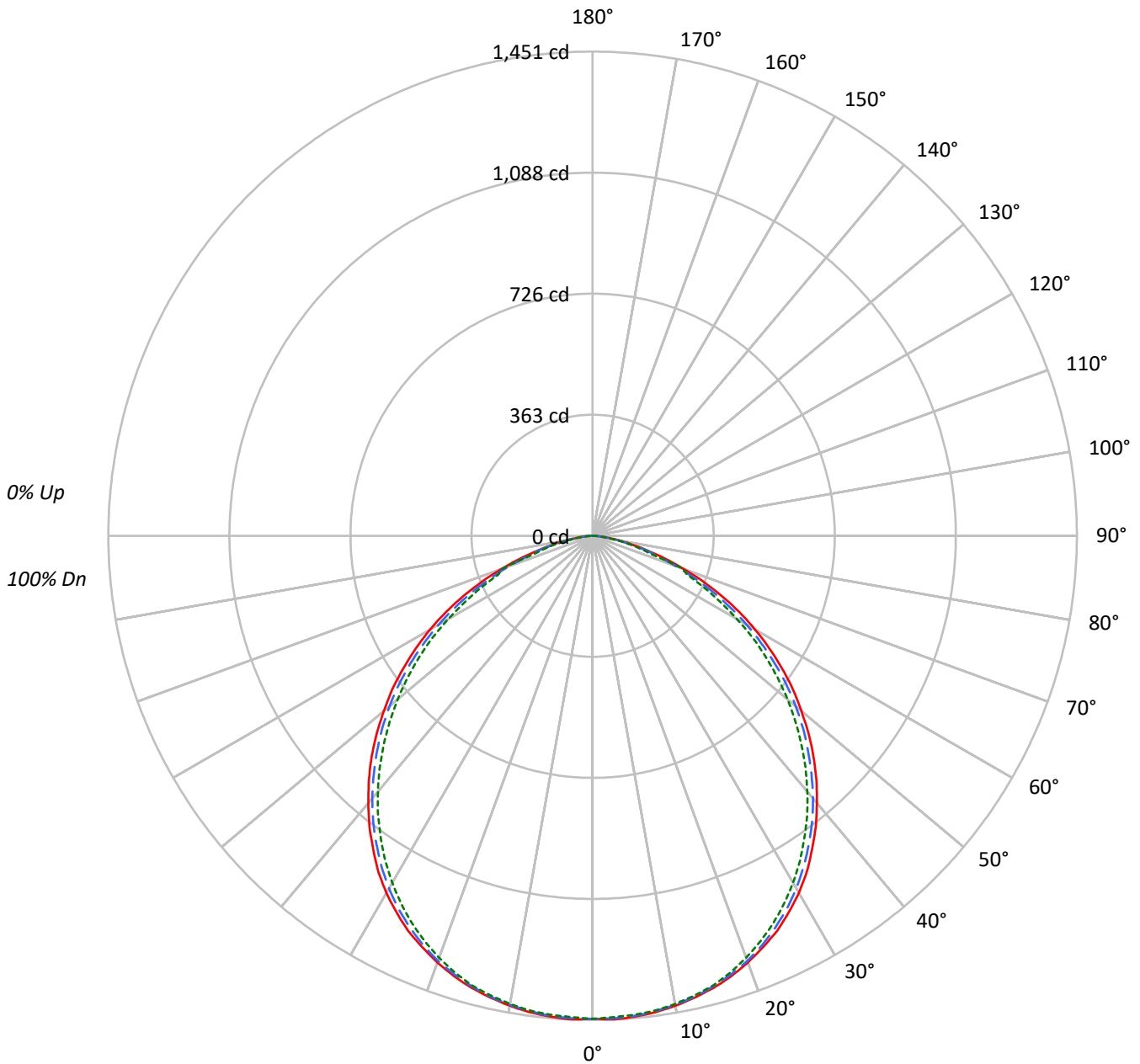
Lumens per Lamp: N/A
Luminaire Lumens: 3725.0 lumens
Efficiency: N/A
Efficacy: 76.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.23 / 1.34
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				
RC	80				70				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			100
1	110	105	101	98	107	103	100	96	99	96	93	95	93	90	91	90	88	86			86
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73			73
3	92	82	74	68	89	80	73	67	77	71	66	75	69	65	72	68	64	62			62
4	84	73	64	58	82	72	64	58	69	62	57	67	61	56	65	60	55	53			53
5	78	65	57	50	76	64	56	50	62	55	49	60	54	49	58	53	48	46			46
6	72	59	50	44	70	58	50	44	56	49	43	55	48	43	53	47	43	41			41
7	67	54	45	39	65	53	45	39	51	44	39	50	43	38	48	43	38	36			36
8	62	49	41	35	61	48	40	35	47	40	35	46	39	34	45	39	34	32			32
9	58	45	37	31	57	44	37	31	43	36	31	42	36	31	41	35	31	29			29
10	54	41	34	29	53	41	34	29	40	33	28	39	33	28	38	32	28	26			26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3895	3895	3895
5°	3908	3902	3893
10°	3908	3900	3892
15°	3907	3895	3887
20°	3897	3882	3853
25°	3880	3846	3804
30°	3840	3791	3731
35°	3766	3709	3634
40°	3672	3609	3516
45°	3563	3476	3367
50°	3415	3325	3190
55°	3249	3121	2973
60°	3025	2867	2689
65°	2716	2524	2360
70°	2284	2081	2250
75°	1759	1692	1520
80°	1266	1133	1077
85°	775	664	599



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.2	3.7
10°-20°	394.2	10.6
20°-30°	595.4	16.0
30°-40°	704.4	18.9
40°-50°	702.3	18.9
50°-60°	593.3	15.9
60°-70°	395.3	10.6
70°-80°	171.7	4.6
80°-90°	31.2	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°	1126.8	30.2
0°-40°	1831.1	49.2
0°-60°	3126.8	83.9
0°-90°	3725.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3725.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1447	1447	1447	1447	1447	
5°	1447	1441	1445	1443	1441	138
15°	1402	1396	1398	1396	1395	396
25°	1307	1298	1295	1284	1281	601
35°	1146	1138	1129	1114	1106	717
45°	936	928	913	894	885	721
55°	692	688	665	644	634	618
65°	427	422	396	379	371	422
75°	169	166	163	157	146	185
85°	25	26	22	20	19	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1447.4	1447.4	1447.4	1447.4	1447.4
2.5°	1451.0	1444.6	1447.4	1447.4	1443.8
5°	1446.7	1441.0	1444.6	1443.1	1441.0
7.5°	1440.3	1434.5	1436.7	1436.0	1435.2
10°	1430.2	1424.5	1427.4	1425.9	1424.5
12.5°	1417.3	1411.6	1414.5	1412.3	1410.9
15°	1402.3	1395.8	1398.0	1395.8	1395.1
17.5°	1383.6	1377.2	1377.9	1375.0	1372.2
20°	1360.7	1355.0	1355.7	1348.5	1345.6
22.5°	1334.2	1328.4	1327.7	1318.4	1314.8
25°	1306.9	1298.3	1295.4	1284.0	1281.1
27.5°	1272.5	1264.6	1260.3	1248.1	1242.4
30°	1235.9	1227.3	1220.2	1206.6	1200.8
32.5°	1194.4	1185.8	1176.4	1162.1	1155.7
35°	1146.3	1138.4	1129.1	1114.1	1106.2
37.5°	1098.3	1089.7	1080.4	1062.5	1056.0
40°	1045.2	1037.4	1027.3	1008.0	1000.8
42.5°	992.2	982.9	970.7	952.1	944.2
45°	936.3	927.7	913.3	894.0	884.7
47.5°	877.5	870.3	855.3	834.5	824.4
50°	815.8	810.1	794.3	771.4	762.1
52.5°	757.1	749.2	731.2	708.3	698.3
55°	692.5	687.5	665.3	643.8	633.7
57.5°	628.0	621.6	599.3	577.8	568.5
60°	562.1	556.3	532.7	511.2	499.7
62.5°	495.4	488.9	463.8	444.5	433.7
65°	426.6	421.5	396.4	379.2	370.6
67.5°	357.7	354.2	327.6	313.3	306.8
70°	290.3	285.3	264.5	258.8	286.0
72.5°	228.0	221.5	203.6	194.3	187.1
75°	169.2	165.6	162.7	157.0	146.2
77.5°	119.0	118.3	108.3	100.4	108.3
80°	81.7	84.6	73.1	66.7	69.5
82.5°	50.2	55.9	43.7	38.7	37.3
85°	25.1	25.8	21.5	20.1	19.4
87.5°	9.3	10.8	9.3	7.9	7.9
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)