

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: PORTFOLIO

Report Number: P1316660

Luminaire Tested: LDSQA3D13R609740DE010 3LSQCA45R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1316660
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-81)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D13R609740DE010 3LSQCA45R 1MW
Description: 3in Adjustable LED luminaire with, R60 optic, 4000K CCT AND, 97CRI , 3LSQCA45R 1MW TRIM
Light Source: -
Ballast/Driver: -

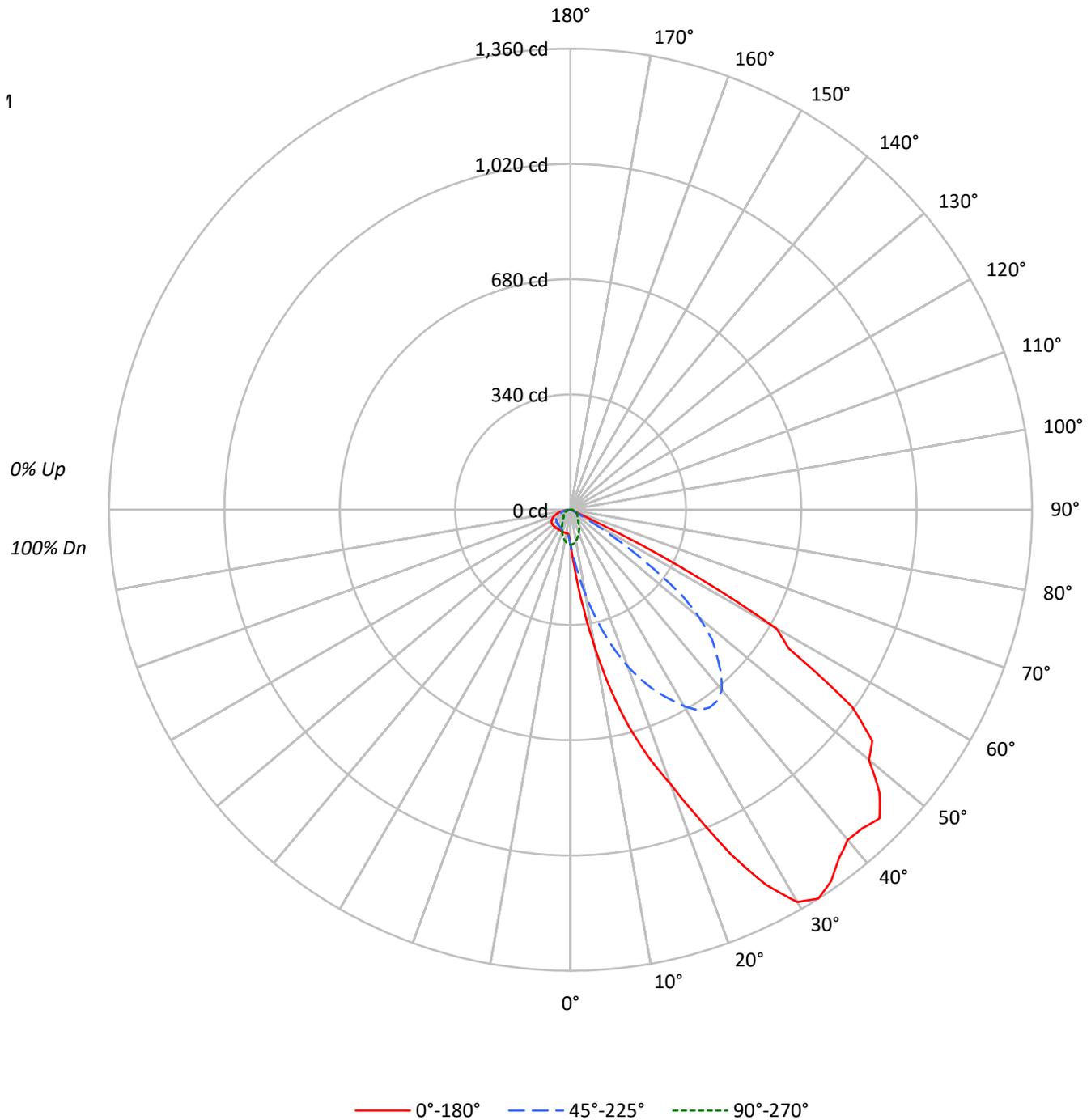
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1035.0 lumens
Efficiency: N/A
Efficacy: 70.9 lumens/watt
Spacing Criteria (0/90/45): 3.38 / 0.84 / 2.07
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 14.6
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: 24 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	102	102	102	100
1	110	106	102	99	108	104	100	97	100	97	94	96	93	91	92	90	89	89	89	89	87
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	79	76	76	76	76	74
3	92	82	74	68	90	81	73	68	78	72	67	75	70	65	72	68	64	64	64	64	62
4	84	72	64	58	82	71	63	57	69	62	56	66	60	56	64	59	55	55	55	55	53
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	47	47	47	45
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	41	41	41	39
7	65	51	42	36	63	50	42	36	49	41	36	47	41	36	46	40	35	35	35	35	33
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	31	31	31	29
9	55	42	33	28	54	41	33	28	40	33	28	39	32	27	38	32	27	27	27	27	25
10	52	38	30	25	50	38	30	25	37	29	24	36	29	24	35	29	24	24	24	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	17670	17670	17670	17670	17670
5°	34801	27160	17409	13173	12517
10°	71893	44262	16281	12014	12172
15°	117588	66434	14603	12071	12410
20°	157782	90007	13104	12078	12591
25°	213457	111736	11440	11972	13055
30°	265684	133021	9546	11972	13662
35°	281287	149926	8115	12257	14234
40°	285770	155891	7397	12680	15445
45°	313705	148498	7112	13518	16733
50°	307531	133108	7047	14361	18407
55°	303954	81641	7056	15523	20328
60°	241112	19427	7440	16533	22044
65°	15323	3464	7294	16871	23758
70°	3323	3777	7100	17523	25127
75°	3127	3726	6255	16902	25685
80°	2777	3769	6546	16761	24299
85°	1778	3754	7509	14820	24108

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 15°
 Vertical Angle: 52.5°
 Luminance: 331114 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	12.8	1.2
10°-20°	64.5	6.2
20°-30°	149.7	14.5
30°-40°	232.6	22.5
40°-50°	265.1	25.6
50°-60°	223.3	21.6
60°-70°	64.8	6.3
70°-80°	16.6	1.6
80°-90°	5.6	0.5
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°	227.0	21.9
0°-40°	459.6	44.4
0°-60°	948.0	91.6
0°-90°	1035.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1035.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	103	103	103	103	103	
5°	201	157	101	76	72	26
15°	660	373	82	68	70	191
25°	1123	588	60	63	69	522
35°	1338	713	39	58	68	831
45°	1288	610	29	56	69	968
55°	1012	272	24	52	68	852
65°	38	8	18	41	58	186
75°	5	6	9	25	39	5
85°	1	2	4	8	12	1
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
0°	102.6	102.6	102.6	102.6	102.6	102.6	102.6	102.6	102.6	102.6	102.6
2.5°	138.3	137.4	137.4	136.4	135.5	134.5	131.7	130.8	125.1	113.8	102.6
5°	201.3	200.4	197.6	196.6	191.9	185.3	178.8	172.2	157.1	125.1	100.7
7.5°	291.7	293.5	291.7	281.3	274.7	264.4	244.6	230.5	200.4	136.4	96.9
10°	411.1	411.1	408.3	392.3	378.2	358.5	333.1	308.6	253.1	146.8	93.1
12.5°	541.0	543.8	529.7	516.5	491.1	466.7	431.8	395.1	313.3	155.2	88.4
15°	659.5	657.6	643.5	626.6	600.2	566.4	529.7	482.6	372.6	160.9	81.9
17.5°	764.9	761.1	748.9	730.1	698.1	660.5	613.4	562.6	433.7	165.6	77.1
20°	860.9	847.7	833.6	813.8	782.8	743.3	694.3	636.9	491.1	165.6	71.5
22.5°	982.2	969.1	949.3	919.2	877.8	828.9	771.5	706.6	541.9	161.8	65.9
25°	1123.3	1113.0	1079.1	1040.6	986.9	928.6	861.8	774.3	588.0	156.2	60.2
27.5°	1246.6	1235.3	1201.4	1145.0	1080.1	1010.5	939.9	850.5	628.5	145.8	53.6
30°	1336.0	1321.9	1295.5	1241.9	1162.9	1078.2	994.5	908.8	668.9	133.6	48.0
32.5°	1359.5	1357.6	1337.9	1298.3	1227.8	1134.6	1034.9	941.8	700.9	117.6	43.3
35°	1337.9	1340.7	1336.9	1317.2	1265.4	1174.2	1061.3	959.6	713.1	101.6	38.6
37.5°	1298.3	1302.1	1308.7	1311.5	1278.6	1197.7	1076.3	967.2	710.3	85.6	35.8
40°	1271.1	1269.2	1269.2	1288.0	1281.4	1208.0	1078.2	961.5	693.4	68.7	32.9
42.5°	1273.9	1253.2	1239.1	1269.2	1278.6	1203.3	1066.0	946.5	656.7	52.7	30.1
45°	1288.0	1243.8	1219.3	1257.9	1272.9	1187.3	1043.4	923.9	609.7	36.7	29.2
47.5°	1235.3	1206.1	1202.4	1256.9	1262.6	1160.0	1008.6	888.1	564.5	25.4	27.3
50°	1147.8	1143.1	1162.9	1219.3	1220.3	1114.9	969.1	823.2	496.8	17.9	26.3
52.5°	1120.5	1123.3	1141.2	1170.4	1143.1	1038.7	897.6	768.7	411.1	14.1	25.4
55°	1012.3	1017.0	1034.0	1051.8	1032.1	945.5	811.0	702.8	271.9	13.2	23.5
57.5°	762.1	774.3	805.3	821.3	823.2	770.5	734.8	605.9	153.4	13.2	22.6
60°	700.0	684.0	669.9	636.9	606.8	600.2	604.0	454.4	56.4	12.2	21.6
62.5°	366.0	358.5	380.1	394.2	398.0	418.7	391.4	239.9	12.2	12.2	19.8
65°	37.6	37.6	46.1	61.2	101.6	135.5	128.9	69.6	8.5	11.3	17.9
67.5°	11.3	11.3	11.3	13.2	16.9	16.9	14.1	10.3	8.5	10.3	16.0
70°	6.6	6.6	6.6	6.6	6.6	6.6	7.5	6.6	7.5	9.4	14.1
72.5°	5.6	5.6	5.6	5.6	6.6	6.6	6.6	6.6	6.6	8.5	12.2
75°	4.7	4.7	4.7	4.7	4.7	4.7	4.7	5.6	5.6	6.6	9.4
77.5°	3.8	3.8	3.8	3.8	3.8	3.8	4.7	4.7	4.7	5.6	7.5
80°	2.8	2.8	2.8	2.8	2.8	3.8	3.8	3.8	3.8	4.7	6.6
82.5°	1.9	1.9	1.9	1.9	2.8	2.8	2.8	2.8	2.8	3.8	4.7
85°	0.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.8	3.8
87.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.9	1.9	2.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	112.5°	135°	157.5°	180°
0°	102.6	102.6	102.6	102.6
2.5°	93.1	86.6	82.8	80.9
5°	84.7	76.2	73.4	72.4
7.5°	77.1	71.5	70.6	70.6
10°	72.4	68.7	69.6	69.6
12.5°	69.6	68.7	69.6	70.6
15°	66.8	67.7	69.6	69.6
17.5°	64.9	66.8	68.7	69.6
20°	62.1	65.9	68.7	68.7
22.5°	60.2	64.9	67.7	68.7
25°	58.3	63.0	66.8	68.7
27.5°	55.5	62.1	66.8	67.7
30°	52.7	60.2	65.9	68.7
32.5°	49.9	59.3	65.9	67.7
35°	48.0	58.3	65.9	67.7
37.5°	46.1	57.4	65.9	68.7
40°	45.2	56.4	64.9	68.7
42.5°	43.3	56.4	64.9	68.7
45°	42.3	55.5	64.9	68.7
47.5°	41.4	54.6	64.9	68.7
50°	39.5	53.6	64.0	68.7
52.5°	38.6	52.7	64.0	68.7
55°	36.7	51.7	63.0	67.7
57.5°	35.8	49.9	62.1	65.9
60°	33.9	48.0	60.2	64.0
62.5°	31.0	45.2	57.4	62.1
65°	28.2	41.4	54.6	58.3
67.5°	25.4	38.6	50.8	54.6
70°	22.6	34.8	46.1	49.9
72.5°	19.8	30.1	41.4	44.2
75°	16.9	25.4	34.8	38.6
77.5°	13.2	20.7	29.2	32.0
80°	10.3	16.9	22.6	24.5
82.5°	8.5	12.2	16.9	17.9
85°	5.6	7.5	10.3	12.2
87.5°	2.8	3.8	4.7	5.6
90°	0.0	0.0	0.0	0.0

(END OF REPORT)