

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: P1320166

Luminaire Tested: LDSQA3D13R559840DE010 3LSQCA45R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1320166
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-80)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D13R559840DE010 3LSQCA45R 1MW
Description: 3in Adjustable LED luminaire with, R55 optic, 4000K CCT AND, 98CRI , 3LSQCA45R 1MW TRIM
Light Source: -
Ballast/Driver: -

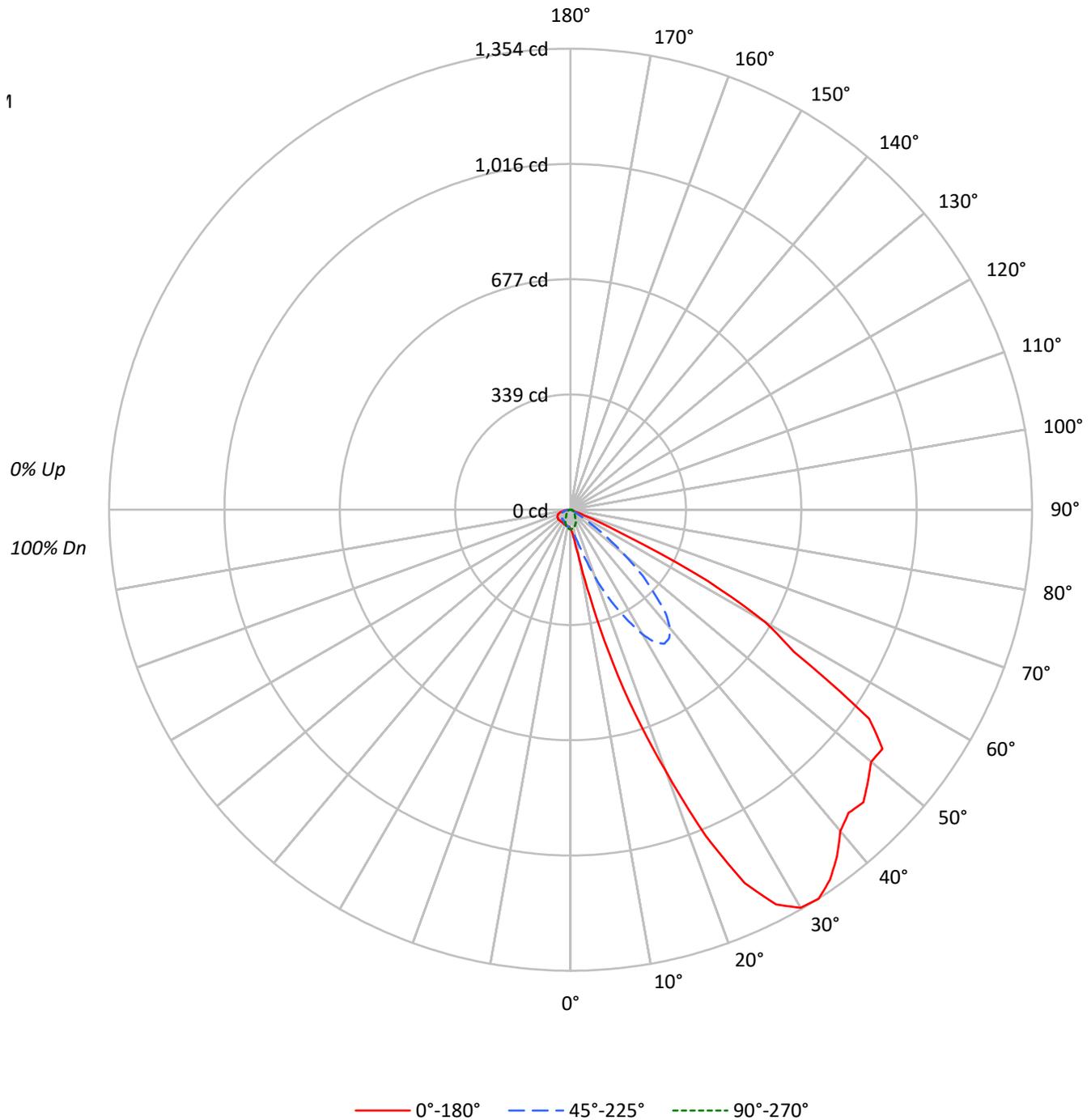
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 871.0 lumens
Efficiency: N/A
Efficacy: 60.1 lumens/watt
Spacing Criteria (0/90/45): 3.76 / 0.91 / 1.95
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 14.5
Input Voltage (V): NR
Input Current (Ain): 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	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	106	102	99	107	104	100	97	99	97	94	95	93	91	92	90	88	86
2	100	93	86	81	98	91	85	80	87	83	78	84	80	77	81	78	75	73
3	91	81	73	67	89	80	72	67	77	71	65	74	69	64	72	67	63	61
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54	51
5	76	63	54	47	74	62	53	47	60	52	47	58	51	46	56	50	46	43
6	69	56	47	40	68	55	46	40	53	46	40	51	45	39	50	44	39	37
7	64	50	41	35	62	49	41	35	48	40	34	46	39	34	45	38	34	32
8	59	45	36	30	57	44	36	30	43	35	30	41	35	29	40	34	29	27
9	54	40	32	26	53	40	32	26	39	31	26	38	31	26	36	30	26	24
10	50	37	28	23	49	36	28	23	35	28	23	34	27	23	33	27	23	21

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	9679	9679	9679	9679	9679
5°	12378	11306	9716	9042	8782
10°	25165	14393	9426	8622	8622
15°	77257	22091	8790	8362	8647
20°	149370	38653	7899	8174	8596
25°	229894	60105	6879	7905	8627
30°	268429	84021	5668	7796	8869
35°	278953	100960	4688	7758	9230
40°	276822	101911	4317	8139	10027
45°	295974	84345	4116	8817	10863
50°	308469	55676	4126	9485	12164
55°	321189	24261	4174	10389	13392
60°	226921	5580	4237	11401	15121
65°	74004	1875	4075	12225	16953
70°	2316	1913	4280	13193	19386
75°	2063	2063	3593	13841	21493
80°	1488	2281	3769	13786	22910
85°	1581	2964	4545	13635	22724

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 52.5°
 Luminance: 326361 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.0	0.7
10°-20°	37.0	4.2
20°-30°	124.0	14.2
30°-40°	203.6	23.4
40°-50°	227.1	26.1
50°-60°	191.1	21.9
60°-70°	64.8	7.4
70°-80°	12.7	1.5
80°-90°	4.8	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°	166.9	19.2
0°-40°	370.5	42.5
0°-60°	788.7	90.6
0°-90°	871.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	871.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	56	56	56	56	56	
5°	72	65	56	52	51	9
15°	433	124	49	47	48	137
25°	1210	316	36	42	45	544
35°	1327	480	22	37	44	824
45°	1215	346	17	36	45	928
55°	1070	81	14	35	45	871
65°	182	5	10	30	42	246
75°	3	3	5	21	32	3
85°	1	2	2	7	12	1
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	45°	67.5°	90°	112.5°	135°
0°	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2
2.5°	61.6	61.6	61.6	61.6	61.6	61.6	60.8	58.5	56.9	54.6	53.9
5°	71.6	71.6	71.6	70.8	70.8	69.3	65.4	60.0	56.2	53.1	52.3
7.5°	92.3	91.6	90.0	89.3	87.0	86.2	72.3	61.6	55.4	51.6	50.8
10°	143.9	142.4	140.1	131.6	123.9	118.5	82.3	62.3	53.9	50.0	49.3
12.5°	259.3	256.3	244.7	227.0	205.5	194.7	98.5	63.1	51.6	48.5	48.5
15°	433.3	429.4	407.9	383.3	344.0	322.5	123.9	62.3	49.3	46.2	46.9
17.5°	625.7	614.9	592.6	560.3	507.2	481.8	161.6	60.8	46.2	44.6	46.2
20°	815.0	811.9	775.0	731.1	665.7	631.8	210.9	58.5	43.1	42.3	44.6
22.5°	1036.6	1023.5	984.3	937.3	847.3	802.7	264.0	55.4	40.0	40.0	43.1
25°	1209.8	1194.4	1163.6	1109.0	1023.5	975.8	316.3	51.6	36.2	37.7	41.6
27.5°	1306.7	1289.0	1266.0	1219.0	1152.8	1110.5	368.6	46.9	32.3	35.4	40.0
30°	1349.8	1345.2	1328.3	1293.7	1232.9	1195.2	422.5	41.6	28.5	33.1	39.2
32.5°	1354.5	1356.8	1349.8	1327.5	1281.4	1249.0	462.5	36.9	25.4	31.6	37.7
35°	1326.8	1335.2	1339.8	1330.6	1300.6	1274.4	480.2	31.6	22.3	30.0	36.9
37.5°	1283.7	1299.1	1314.4	1316.8	1298.3	1281.4	475.6	26.9	20.8	29.2	36.9
40°	1231.3	1245.2	1276.7	1296.7	1290.6	1278.3	453.3	22.3	19.2	27.7	36.2
42.5°	1207.5	1210.6	1244.4	1278.3	1276.7	1266.7	414.0	17.7	17.7	27.7	36.2
45°	1215.2	1201.3	1223.6	1262.9	1260.6	1247.5	346.3	13.9	16.9	26.9	36.2
47.5°	1182.8	1163.6	1201.3	1247.5	1239.0	1219.8	286.3	10.0	16.2	26.2	35.4
50°	1151.3	1148.2	1177.5	1200.5	1189.0	1178.2	207.8	7.7	15.4	25.4	35.4
52.5°	1153.6	1148.2	1151.3	1150.5	1127.4	1115.9	142.4	6.2	14.6	24.6	35.4
55°	1069.7	1052.8	1036.6	1041.2	1042.8	1035.1	80.8	5.4	13.9	24.6	34.6
57.5°	777.3	772.7	790.4	840.4	879.6	884.2	39.2	5.4	13.1	23.9	33.9
60°	658.8	655.7	656.5	671.1	691.9	678.8	16.2	5.4	12.3	23.1	33.1
62.5°	454.1	484.1	496.4	530.2	516.4	497.9	6.2	6.2	11.5	21.5	32.3
65°	181.6	180.9	197.8	213.9	209.3	195.5	4.6	5.4	10.0	20.0	30.0
67.5°	42.3	38.5	33.1	28.5	23.9	19.2	4.6	5.4	9.2	18.5	28.5
70°	4.6	4.6	4.6	4.6	4.6	3.8	3.8	5.4	8.5	16.9	26.2
72.5°	3.8	3.8	3.8	3.8	3.8	3.8	3.8	4.6	6.9	14.6	23.9
75°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.8	5.4	12.3	20.8
77.5°	2.3	2.3	2.3	3.1	2.3	3.1	3.1	3.8	4.6	10.0	17.7
80°	1.5	1.5	2.3	2.3	2.3	2.3	2.3	3.1	3.8	8.5	13.9
82.5°	1.5	1.5	1.5	1.5	1.5	1.5	2.3	2.3	3.1	6.2	10.0
85°	0.8	0.8	0.8	0.8	0.8	1.5	1.5	2.3	2.3	4.6	6.9
87.5°	0.8	0.8	0.8	0.8	0.8	0.8	1.5	1.5	2.3	2.3	3.1
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):

	157.5°	180°
0°	56.2	56.2
2.5°	53.1	53.1
5°	51.6	50.8
7.5°	50.0	50.0
10°	49.3	49.3
12.5°	48.5	49.3
15°	48.5	48.5
17.5°	46.9	47.7
20°	46.2	46.9
22.5°	45.4	46.2
25°	44.6	45.4
27.5°	43.9	44.6
30°	43.1	44.6
32.5°	42.3	43.9
35°	42.3	43.9
37.5°	42.3	44.6
40°	42.3	44.6
42.5°	42.3	44.6
45°	42.3	44.6
47.5°	42.3	44.6
50°	42.3	45.4
52.5°	42.3	45.4
55°	42.3	44.6
57.5°	41.6	44.6
60°	41.6	43.9
62.5°	40.8	43.1
65°	39.2	41.6
67.5°	37.7	40.8
70°	35.4	38.5
72.5°	33.1	35.4
75°	30.0	32.3
77.5°	26.2	27.7
80°	20.8	23.1
82.5°	16.2	17.7
85°	10.8	11.5
87.5°	4.6	5.4
90°	0.0	0.0

(END OF REPORT)