

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: P1323668

Luminaire Tested: LDSQA3D05R559030D2WDE010 3LSQCA45R 1MB

Issue Date: 1/29/2026

**Test Information**

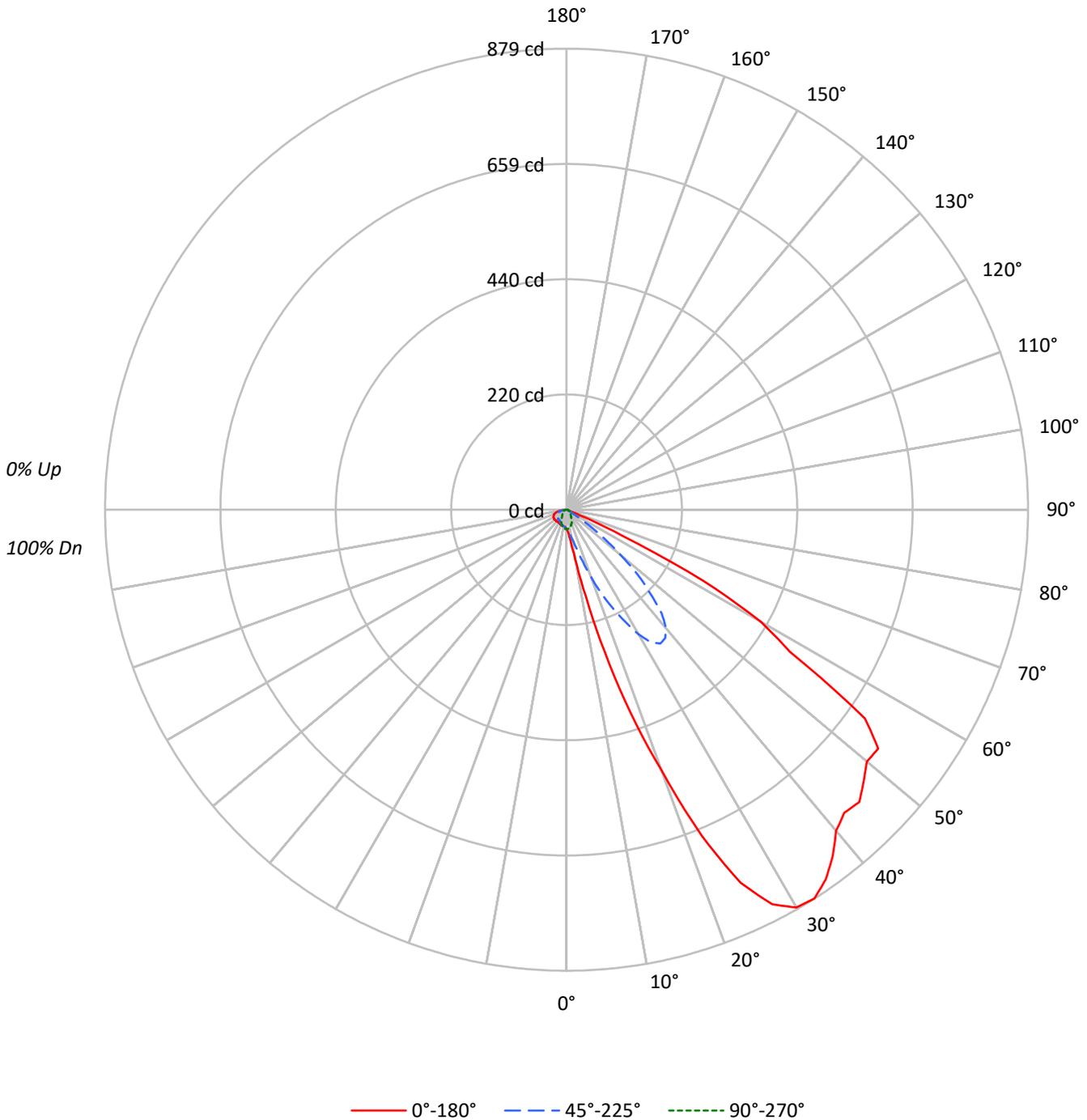
Test Method: LM-79-2019  
Report Number: P1323668  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-80)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D05R559030D2WDE010 3LSQCA45R 1MB  
Description: 3in Adjustable Dim to Warm LED luminaire with, R55 optic, 3000K CCT AND, 90CRI ,  
3LSQCA45R 1MB TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 565.1 lumens  
Efficiency: N/A  
Efficacy: 50.9 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): 11.1  
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				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	107	104	100	97	99	97	94	95	93	91	92	90	88	88	88	88	86
2	100	93	86	81	98	91	85	80	87	83	78	84	80	77	81	78	75	75	75	75	73
3	91	81	73	67	89	80	72	67	77	71	65	74	69	64	72	67	63	63	63	63	61
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54	54	54	54	51
5	76	63	54	47	74	62	53	47	60	52	47	58	51	46	56	50	46	46	46	46	43
6	69	56	47	40	68	55	46	40	53	46	40	51	45	39	50	44	39	39	39	39	37
7	64	50	41	35	62	49	41	35	48	40	34	46	39	34	45	38	34	34	34	34	32
8	59	45	36	30	57	44	36	30	43	35	30	41	35	29	40	34	29	29	29	29	27
9	54	40	32	26	53	40	32	26	39	31	26	38	31	26	36	30	26	26	26	26	24
10	50	37	28	23	49	36	28	23	35	28	23	34	27	23	33	27	23	23	23	23	21

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°	135°	180°
0°	6269	6269	6269	6269	6269
5°	8022	7330	6293	5861	5688
10°	16334	9339	6103	5579	5579
15°	50120	14335	5688	5438	5616
20°	96898	25072	5132	5315	5590
25°	149133	38993	4466	5131	5606
30°	174127	54509	3679	5071	5767
35°	180937	65491	3049	5046	5992
40°	179564	66097	2810	5283	6520
45°	191998	54703	2679	5724	7063
50°	200091	36117	2679	6162	7904
55°	208351	15734	2702	6756	8708
60°	147181	3617	2756	7406	9817
65°	48005	1223	2649	7947	11003
70°	1511	1259	2769	8560	12589
75°	1331	1331	2329	8983	13974
80°	992	1488	2479	8926	14877
85°	988	1976	2964	8892	14820

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 52.5°  
 Luminance: 211699 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	3.9	0.7
10°-20°	24.0	4.2
20°-30°	80.4	14.2
30°-40°	132.1	23.4
40°-50°	147.3	26.1
50°-60°	124.0	21.9
60°-70°	42.1	7.4
70°-80°	8.2	1.5
80°-90°	3.1	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°	108.3	19.2
0°-40°	240.4	42.5
0°-60°	511.7	90.5
0°-90°	565.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	565.1	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	36	36	36	36	36	
5°	46	42	36	34	33	6
15°	281	80	32	30	32	89
25°	785	205	24	27	30	353
35°	861	312	14	24	28	534
45°	788	225	11	24	29	602
55°	694	52	9	22	29	565
65°	118	3	6	20	27	160
75°	2	2	4	14	21	2
85°	0	1	2	4	8	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°	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4
2.5°	39.9	39.9	39.9	39.9	39.9	39.9	39.4	37.9	36.9	35.4	34.9
5°	46.4	46.4	46.4	45.9	45.9	44.9	42.4	38.9	36.4	34.4	33.9
7.5°	59.9	59.4	58.4	57.9	56.4	55.9	46.9	39.9	35.9	33.4	32.9
10°	93.4	92.4	90.9	85.4	80.4	76.9	53.4	40.4	34.9	32.4	31.9
12.5°	168.2	166.2	158.7	147.3	133.3	126.3	63.9	40.9	33.4	31.5	31.5
15°	281.1	278.6	264.6	248.6	223.1	209.2	80.4	40.4	31.9	30.0	30.5
17.5°	405.9	398.9	384.4	363.4	329.0	312.5	104.8	39.4	30.0	29.0	30.0
20°	528.7	526.7	502.7	474.3	431.8	409.9	136.8	37.9	28.0	27.5	29.0
22.5°	672.4	664.0	638.5	608.0	549.6	520.7	171.2	35.9	26.0	26.0	28.0
25°	784.8	774.8	754.8	719.4	664.0	633.0	205.2	33.4	23.5	24.5	27.0
27.5°	847.7	836.2	821.2	790.8	747.8	720.4	239.1	30.5	21.0	23.0	26.0
30°	875.6	872.6	861.6	839.2	799.7	775.3	274.1	27.0	18.5	21.5	25.5
32.5°	878.6	880.1	875.6	861.1	831.2	810.2	300.0	24.0	16.5	20.5	24.5
35°	860.6	866.1	869.1	863.1	843.7	826.7	311.5	20.5	14.5	19.5	24.0
37.5°	832.7	842.7	852.7	854.2	842.2	831.2	308.5	17.5	13.5	19.0	24.0
40°	798.7	807.7	828.2	841.2	837.2	829.2	294.0	14.5	12.5	18.0	23.5
42.5°	783.3	785.3	807.2	829.2	828.2	821.7	268.6	11.5	11.5	18.0	23.5
45°	788.3	779.3	793.7	819.2	817.7	809.2	224.6	9.0	11.0	17.5	23.5
47.5°	767.3	754.8	779.3	809.2	803.7	791.2	185.7	6.5	10.5	17.0	23.0
50°	746.8	744.8	763.8	778.8	771.3	764.3	134.8	5.0	10.0	16.5	23.0
52.5°	748.3	744.8	746.8	746.3	731.3	723.9	92.4	4.0	9.5	16.0	23.0
55°	693.9	682.9	672.4	675.4	676.4	671.4	52.4	3.5	9.0	16.0	22.5
57.5°	504.2	501.2	512.7	545.1	570.6	573.6	25.5	3.5	8.5	15.5	22.0
60°	427.3	425.3	425.8	435.3	448.8	440.3	10.5	3.5	8.0	15.0	21.5
62.5°	294.5	314.0	322.0	344.0	335.0	323.0	4.0	4.0	7.5	14.0	21.0
65°	117.8	117.3	128.3	138.8	135.8	126.8	3.0	3.5	6.5	13.0	19.5
67.5°	27.5	25.0	21.5	18.5	15.5	12.5	3.0	3.5	6.0	12.0	18.5
70°	3.0	3.0	3.0	3.0	3.0	2.5	2.5	3.5	5.5	11.0	17.0
72.5°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	3.0	4.5	9.5	15.5
75°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.5	3.5	8.0	13.5
77.5°	1.5	1.5	1.5	2.0	1.5	2.0	2.0	2.5	3.0	6.5	11.5
80°	1.0	1.0	1.5	1.5	1.5	1.5	1.5	2.0	2.5	5.5	9.0
82.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.5	1.5	2.0	4.0	6.5
85°	0.5	0.5	0.5	0.5	0.5	1.0	1.0	1.5	1.5	3.0	4.5
87.5°	0.5	0.5	0.5	0.5	0.5	0.5	1.0	1.0	1.5	1.5	2.0
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°	36.4	36.4
2.5°	34.4	34.4
5°	33.4	32.9
7.5°	32.4	32.4
10°	31.9	31.9
12.5°	31.5	31.9
15°	31.5	31.5
17.5°	30.5	31.0
20°	30.0	30.5
22.5°	29.5	30.0
25°	29.0	29.5
27.5°	28.5	29.0
30°	28.0	29.0
32.5°	27.5	28.5
35°	27.5	28.5
37.5°	27.5	29.0
40°	27.5	29.0
42.5°	27.5	29.0
45°	27.5	29.0
47.5°	27.5	29.0
50°	27.5	29.5
52.5°	27.5	29.5
55°	27.5	29.0
57.5°	27.0	29.0
60°	27.0	28.5
62.5°	26.5	28.0
65°	25.5	27.0
67.5°	24.5	26.5
70°	23.0	25.0
72.5°	21.5	23.0
75°	19.5	21.0
77.5°	17.0	18.0
80°	13.5	15.0
82.5°	10.5	11.5
85°	7.0	7.5
87.5°	3.0	3.5
90°	0.0	0.0

(END OF REPORT)