

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: P1325266

Luminaire Tested: LDSQA3D05R50W2N902750DE010 3LSQCA45R 1MW\_3000K

Issue Date: 1/29/2026

**Test Information**

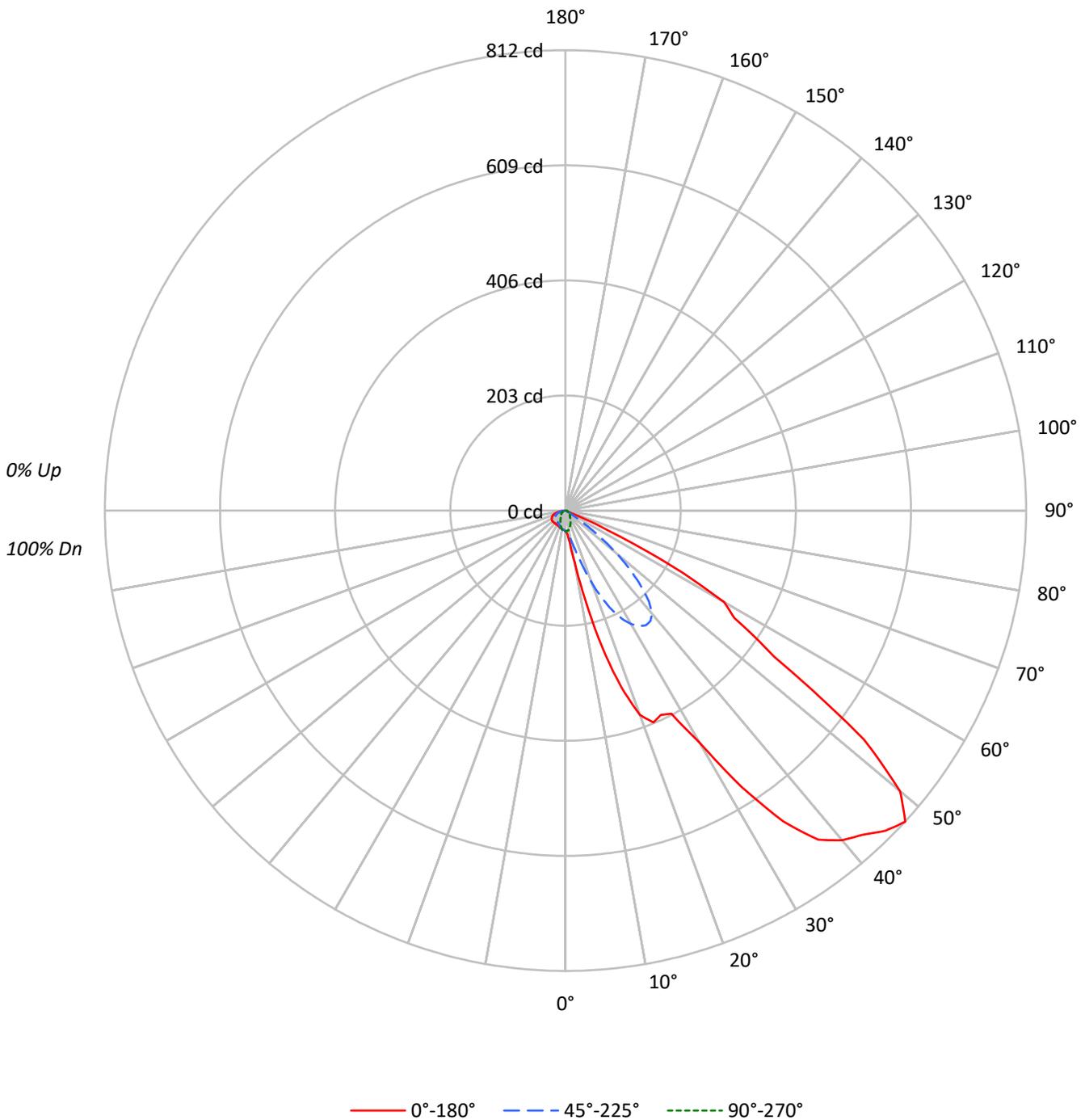
Test Method: LM-79-2019  
Report Number: P1325266  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-79)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D05R50W2N902750DE010 3LSQCA45R 1MW\_3000K  
Description: 3in Adjustable Tunable White LED luminaire with, R50 optic, 3000K CCT AND, 90CRI ,  
3LSQCA45R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 458.0 lumens  
Efficiency: N/A  
Efficacy: 77.6 lumens/watt  
Spacing Criteria (0/90/45): 3.58 / 0.82 / 1.91  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 5.9  
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		0
RW	70	50	30	10	70	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	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88		86
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75		73
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63		61
4	83	71	63	56	81	70	62	55	67	60	55	65	59	54	63	58	53		51
5	76	63	54	47	74	62	53	47	60	52	46	58	51	46	56	50	45		43
6	69	56	47	40	67	55	46	40	53	45	39	51	44	39	50	43	39		37
7	63	50	41	34	62	49	40	34	47	39	34	46	39	34	44	38	33		31
8	58	44	36	30	57	44	35	29	42	35	29	41	34	29	40	34	29		27
9	54	40	31	26	53	39	31	26	38	31	25	37	30	25	36	30	25		23
10	50	36	28	23	49	36	28	22	35	27	22	34	27	22	33	27	22		20

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

	0°	45°	90°	135°	180°
0°	6269	6269	6269	6269	6269
5°	7451	6984	6224	5947	5878
10°	16054	8639	5946	5736	5806
15°	44432	14175	5367	5509	5706
20°	70250	24870	4637	5297	5590
25°	75555	36542	3991	5112	5644
30°	93765	45858	3460	5031	5827
35°	140717	51888	2985	5067	6160
40°	170661	53372	2675	5238	6497
45°	194434	45765	2606	5578	7136
50°	206360	31589	2653	6028	7958
55°	134817	12701	2612	6546	8798
60°	111187	2170	2583	7096	9679
65°	33538	1141	2404	7580	10636
70°	1410	1209	2367	7755	11531
75°	1331	1331	2396	7918	12643
80°	1190	1190	2380	7835	12992
85°	790	1581	3162	7904	12449

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 47.5°  
 Luminance: 207047 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	3.8	0.8
10°-20°	21.7	4.7
20°-30°	55.8	12.2
30°-40°	100.1	21.9
40°-50°	133.8	29.2
50°-60°	101.9	22.2
60°-70°	30.9	6.8
70°-80°	7.4	1.6
80°-90°	2.7	0.6
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
<b>0°-30°</b>	<b>81.2</b>	<b>17.7</b>
<b>0°-40°</b>	<b>181.4</b>	<b>39.6</b>
<b>0°-60°</b>	<b>417.0</b>	<b>91.0</b>
<b>0°-90°</b>	<b>458.0</b>	<b>100.0</b>
90°-120°	0.0	0.0
90°-150°	0.0	0.0
<b>90°-180°</b>	<b>0.0</b>	<b>0.0</b>
<b>0°-180°</b>	<b>458.0</b>	<b>100.0</b>

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	36	36	36	36	36	
5°	43	40	36	34	34	6
15°	249	80	30	31	32	73
25°	398	192	21	27	30	190
35°	669	247	14	24	29	411
45°	798	188	11	23	29	610
55°	449	42	9	22	29	447
65°	82	3	6	19	26	114
75°	2	2	4	12	19	2
85°	0	1	2	4	6	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°	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4
2.5°	38.8	38.8	38.8	38.8	38.8	38.8	38.4	38.4	38.4	37.6	36.8
5°	43.1	43.5	43.1	43.1	42.3	42.3	41.5	41.5	40.4	38.0	36.0
7.5°	56.6	56.2	55.8	54.2	53.0	50.2	49.1	47.1	43.5	38.0	35.2
10°	91.8	89.4	87.8	84.3	76.7	72.0	65.7	59.3	49.4	38.0	34.0
12.5°	159.4	159.0	154.3	142.4	131.7	117.1	101.7	86.2	60.9	37.2	32.4
15°	249.2	245.7	238.9	225.1	206.1	183.2	155.5	128.2	79.5	36.0	30.1
17.5°	326.0	321.6	316.5	302.6	280.9	252.0	218.8	181.2	104.8	34.4	27.7
20°	383.3	380.6	376.2	365.1	344.6	318.5	281.3	235.8	135.7	32.4	25.3
22.5°	404.3	403.9	404.7	400.7	390.4	369.9	334.3	286.8	166.1	30.1	22.9
25°	397.6	397.2	402.3	407.5	409.8	401.5	374.2	327.9	192.3	28.1	21.0
27.5°	403.9	402.7	400.3	401.1	407.9	412.6	399.9	359.6	214.8	25.3	19.0
30°	471.5	464.8	454.1	435.9	422.5	421.3	415.8	384.5	230.6	22.5	17.4
32.5°	577.2	568.9	549.5	515.9	483.8	459.3	441.9	405.5	241.7	19.8	15.4
35°	669.3	663.4	640.9	607.6	561.7	515.9	484.2	436.3	246.8	17.4	14.2
37.5°	731.8	729.5	707.3	671.7	625.0	570.8	528.9	468.0	245.7	14.6	13.1
40°	759.1	752.0	733.4	703.4	656.3	607.6	563.3	488.2	237.4	11.9	11.9
42.5°	775.4	767.4	747.3	718.8	672.5	620.7	567.3	479.5	217.6	9.5	11.5
45°	798.3	790.0	763.5	733.0	686.4	626.2	551.9	448.6	187.9	7.1	10.7
47.5°	812.2	806.6	786.8	756.4	699.8	618.3	516.2	419.7	155.1	5.5	10.3
50°	770.2	764.7	750.0	729.1	691.1	591.8	485.0	373.0	117.9	4.4	9.9
52.5°	663.0	667.8	670.5	676.5	648.8	532.5	438.3	335.9	79.5	3.6	9.1
55°	449.0	456.1	464.0	487.8	520.2	473.9	389.3	290.4	42.3	3.6	8.7
57.5°	352.9	350.5	348.1	346.5	371.9	390.8	342.2	232.2	18.2	3.6	7.9
60°	322.8	315.7	310.9	312.1	324.8	317.3	271.0	151.5	6.3	3.6	7.5
62.5°	211.6	217.2	227.9	246.1	237.4	203.7	157.4	60.1	3.2	3.6	6.7
65°	82.3	79.5	82.3	87.4	75.6	56.2	35.2	10.7	2.8	3.2	5.9
67.5°	11.1	9.9	7.5	4.7	4.4	4.0	3.2	2.8	2.8	3.2	5.5
70°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.4	2.4	2.8	4.7
72.5°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.8	4.0
75°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.4	3.6
77.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	2.0	2.8
80°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.6	2.4
82.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.2	1.2	1.6	2.0
85°	0.4	0.8	0.4	0.8	0.8	0.8	0.8	0.8	0.8	1.2	1.6
87.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.8	1.2	1.2
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°	36.4	36.4	36.4	36.4
2.5°	36.0	35.2	35.2	35.2
5°	35.2	34.4	34.4	34.0
7.5°	34.0	33.6	33.6	33.6
10°	33.2	32.8	33.2	33.2
12.5°	31.6	32.0	32.4	32.4
15°	30.1	30.9	31.6	32.0
17.5°	28.5	30.1	30.9	31.3
20°	26.9	28.9	30.1	30.5
22.5°	25.7	27.7	29.3	30.1
25°	24.1	26.9	28.9	29.7
27.5°	22.5	25.7	28.1	29.3
30°	21.4	25.3	28.1	29.3
32.5°	20.2	24.5	27.7	28.9
35°	19.4	24.1	27.7	29.3
37.5°	18.6	23.7	27.7	28.9
40°	18.2	23.3	27.7	28.9
42.5°	17.8	23.3	27.7	29.3
45°	17.0	22.9	27.7	29.3
47.5°	16.6	22.9	27.7	29.3
50°	16.2	22.5	27.7	29.7
52.5°	15.8	22.2	27.7	29.7
55°	15.0	21.8	27.3	29.3
57.5°	14.6	21.4	26.9	28.5
60°	13.8	20.6	26.1	28.1
62.5°	13.1	19.8	25.3	26.9
65°	11.9	18.6	24.1	26.1
67.5°	10.7	17.0	22.9	24.9
70°	9.5	15.4	21.4	22.9
72.5°	8.3	13.8	19.8	21.0
75°	7.1	11.9	17.4	19.0
77.5°	5.9	10.3	14.6	15.8
80°	4.4	7.9	11.9	13.1
82.5°	3.6	5.9	8.7	9.5
85°	2.4	4.0	5.5	6.3
87.5°	1.2	2.0	2.8	3.2
90°	0.0	0.0	0.0	0.0

(END OF REPORT)