

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: P1315345

Luminaire Tested: LDSQA3D05R509735DE010 3LSQCA45R 1MW

Issue Date: 1/29/2026

**Test Information**

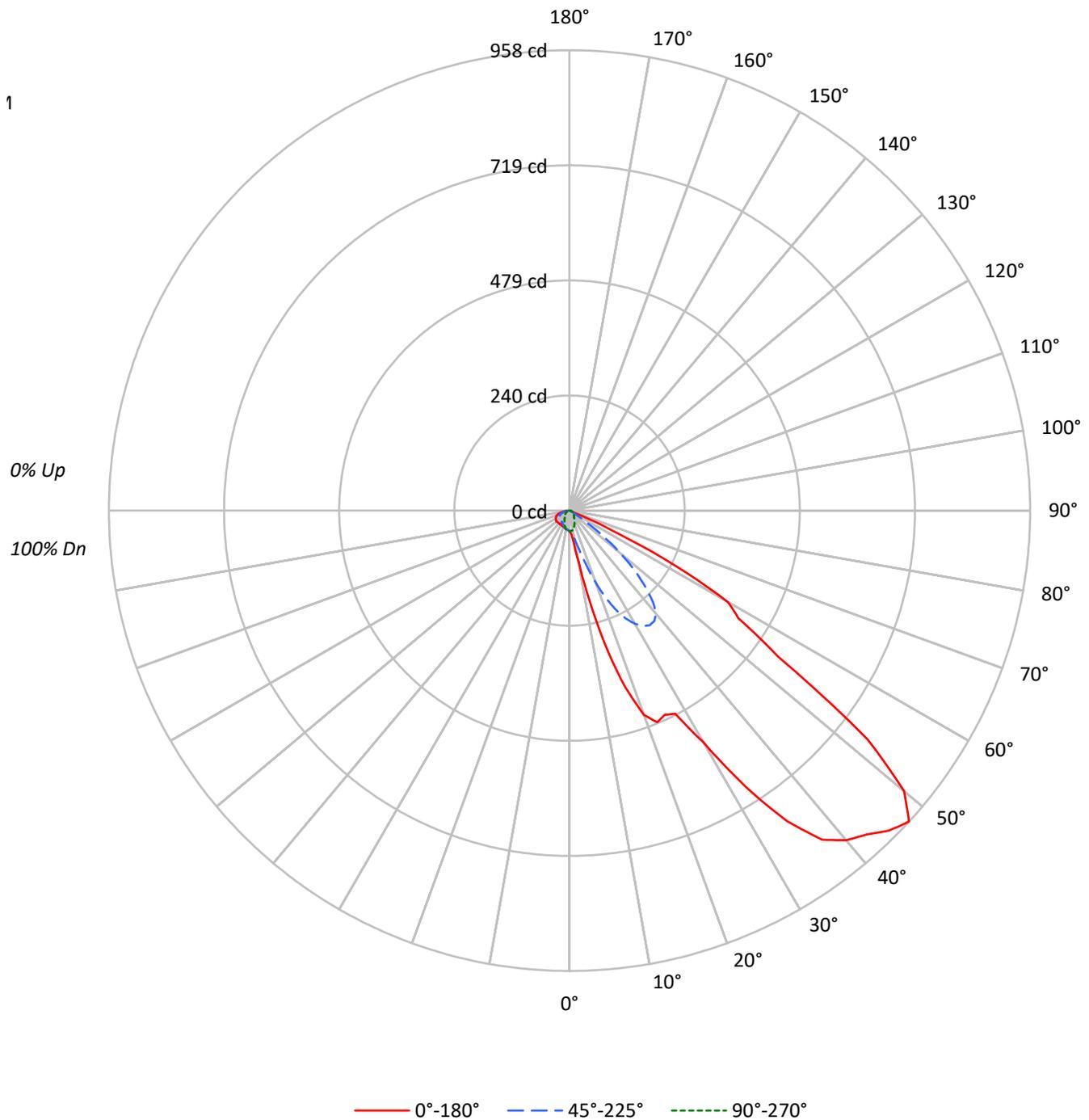
Test Method: LM-79-2019  
Report Number: P1315345  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-79)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D05R509735DE010 3LSQCA45R 1MW  
Description: 3in Adjustable LED luminaire with, R50 optic, 3500K CCT AND, 97CRI , 3LSQCA45R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 540.0 lumens  
Efficiency: N/A  
Efficacy: 75.0 lumens/watt  
Spacing Criteria (0/90/45): 3.58 / 0.83 / 1.91  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 7.2  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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	98	107	103	100	97	99	96	94	95	93	91	92	90	88	88	88	88	86	
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	75	75	75	73	
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	63	63	63	61	
4	83	71	63	56	81	70	62	55	67	60	55	65	59	54	63	58	53	53	53	53	51	
5	76	63	54	47	74	62	53	47	60	52	46	58	51	46	56	50	45	45	45	45	43	
6	69	56	47	40	67	55	46	40	53	45	39	51	44	39	50	43	39	39	39	39	37	
7	63	50	41	34	62	49	40	34	47	39	34	46	39	34	44	38	33	33	33	33	31	
8	58	44	36	30	57	44	35	29	42	35	29	41	34	29	40	34	29	29	29	29	27	
9	54	40	31	26	53	39	31	26	38	31	25	37	30	25	36	30	25	25	25	25	23	
10	50	36	28	23	49	36	28	22	35	27	22	34	27	22	33	27	22	22	22	22	20	

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

	0°	45°	90°	135°	180°
0°	7388	7388	7388	7388	7388
5°	8782	8229	7330	7019	6933
10°	18922	10195	7013	6768	6855
15°	52384	16724	6312	6490	6740
20°	82841	29324	5480	6231	6580
25°	89084	43079	4694	6024	6651
30°	110569	54072	4077	5946	6861
35°	165925	61181	3532	5992	7253
40°	201237	62927	3147	6183	7644
45°	229238	53948	3069	6600	8403
50°	243308	37242	3135	7127	9378
55°	158958	14983	3093	7717	10359
60°	131096	2583	3066	8370	11401
65°	39529	1345	2853	8925	12551
70°	1662	1410	2820	9165	13646
75°	1530	1530	2795	9316	14905
80°	1389	1389	2777	9224	15274
85°	988	1778	3754	9287	14820

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 47.5°  
 Luminance: 244113 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	4.5	0.8
10°-20°	25.6	4.7
20°-30°	65.7	12.2
30°-40°	118.1	21.9
40°-50°	157.7	29.2
50°-60°	120.1	22.2
60°-70°	36.5	6.8
70°-80°	8.7	1.6
80°-90°	3.1	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
0°-30°	95.8	17.7
0°-40°	213.8	39.6
0°-60°	491.7	91.0
0°-90°	540.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	540.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	43	43	43	43	43	
5°	51	48	42	41	40	7
15°	294	94	35	36	38	86
25°	469	227	25	32	35	224
35°	789	291	17	28	34	485
45°	941	222	13	27	34	720
55°	529	50	10	26	34	527
65°	97	3	7	22	31	134
75°	2	2	4	14	22	2
85°	0	1	2	5	8	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°	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9
2.5°	45.7	45.7	45.7	45.7	45.7	45.7	45.2	45.2	45.2	44.3	43.4
5°	50.8	51.3	50.8	50.8	49.9	49.9	49.0	49.0	47.6	44.8	42.4
7.5°	66.7	66.2	65.8	63.9	62.5	59.2	57.8	55.5	51.3	44.8	41.5
10°	108.2	105.4	103.5	99.3	90.5	84.9	77.4	70.0	58.3	44.8	40.1
12.5°	188.0	187.5	181.9	167.9	155.3	138.1	119.9	101.7	71.8	43.8	38.2
15°	293.8	289.6	281.7	265.4	243.0	216.0	183.3	151.1	93.8	42.4	35.4
17.5°	384.3	379.2	373.1	356.8	331.2	297.1	257.9	213.6	123.6	40.6	32.6
20°	452.0	448.7	443.6	430.5	406.3	375.5	331.6	278.0	160.0	38.2	29.9
22.5°	476.7	476.2	477.1	472.5	460.4	436.1	394.1	338.2	195.9	35.4	27.1
25°	468.8	468.3	474.3	480.4	483.2	473.4	441.2	386.7	226.7	33.1	24.7
27.5°	476.2	474.8	472.0	472.9	480.9	486.5	471.5	424.0	253.3	29.9	22.4
30°	556.0	548.0	535.4	514.0	498.1	496.7	490.2	453.4	271.9	26.6	20.5
32.5°	680.5	670.7	647.9	608.2	570.4	541.5	521.0	478.1	285.0	23.3	18.2
35°	789.2	782.2	755.6	716.4	662.3	608.2	570.9	514.5	291.0	20.5	16.8
37.5°	862.9	860.1	834.0	792.0	736.9	673.0	623.6	551.8	289.6	17.3	15.4
40°	895.1	886.7	864.7	829.3	773.8	716.4	664.2	575.6	279.9	14.0	14.0
42.5°	914.2	904.9	881.1	847.5	792.9	731.8	668.8	565.3	256.5	11.2	13.5
45°	941.2	931.4	900.2	864.3	809.2	738.3	650.7	528.9	221.5	8.4	12.6
47.5°	957.6	951.0	927.7	891.8	825.1	729.0	608.7	494.9	182.8	6.5	12.1
50°	908.1	901.6	884.3	859.6	814.8	697.8	571.8	439.8	139.0	5.1	11.7
52.5°	781.7	787.3	790.6	797.6	764.9	627.8	516.8	396.0	93.8	4.2	10.7
55°	529.4	537.8	547.1	575.1	613.3	558.8	459.0	342.4	49.9	4.2	10.3
57.5°	416.0	413.2	410.4	408.6	438.4	460.8	403.5	273.8	21.5	4.2	9.3
60°	380.6	372.2	366.6	368.0	382.9	374.1	319.5	178.6	7.5	4.2	8.9
62.5°	249.5	256.1	268.7	290.1	279.9	240.2	185.6	70.9	3.7	4.2	7.9
65°	97.0	93.8	97.0	103.1	89.1	66.2	41.5	12.6	3.3	3.7	7.0
67.5°	13.1	11.7	8.9	5.6	5.1	4.7	3.7	3.3	3.3	3.7	6.5
70°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	2.8	2.8	3.3	5.6
72.5°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	3.3	4.7
75°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.8	4.2
77.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.3	3.3
80°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.9	2.8
82.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.4	1.4	1.9	2.3
85°	0.5	0.9	0.5	0.9	0.9	0.9	0.9	0.9	0.9	1.4	1.9
87.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.9	1.4	1.4
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°	42.9	42.9	42.9	42.9
2.5°	42.4	41.5	41.5	41.5
5°	41.5	40.6	40.6	40.1
7.5°	40.1	39.6	39.6	39.6
10°	39.2	38.7	39.2	39.2
12.5°	37.3	37.8	38.2	38.2
15°	35.4	36.4	37.3	37.8
17.5°	33.6	35.4	36.4	36.8
20°	31.7	34.0	35.4	35.9
22.5°	30.3	32.6	34.5	35.4
25°	28.5	31.7	34.0	35.0
27.5°	26.6	30.3	33.1	34.5
30°	25.2	29.9	33.1	34.5
32.5°	23.8	28.9	32.6	34.0
35°	22.9	28.5	32.6	34.5
37.5°	21.9	28.0	32.6	34.0
40°	21.5	27.5	32.6	34.0
42.5°	21.0	27.5	32.6	34.5
45°	20.1	27.1	32.6	34.5
47.5°	19.6	27.1	32.6	34.5
50°	19.1	26.6	32.6	35.0
52.5°	18.7	26.1	32.6	35.0
55°	17.7	25.7	32.2	34.5
57.5°	17.3	25.2	31.7	33.6
60°	16.3	24.3	30.8	33.1
62.5°	15.4	23.3	29.9	31.7
65°	14.0	21.9	28.5	30.8
67.5°	12.6	20.1	27.1	29.4
70°	11.2	18.2	25.2	27.1
72.5°	9.8	16.3	23.3	24.7
75°	8.4	14.0	20.5	22.4
77.5°	7.0	12.1	17.3	18.7
80°	5.1	9.3	14.0	15.4
82.5°	4.2	7.0	10.3	11.2
85°	2.8	4.7	6.5	7.5
87.5°	1.4	2.3	3.3	3.7
90°	0.0	0.0	0.0	0.0

(END OF REPORT)