

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: P1319007

Luminaire Tested: LDSQA3D05R609835DE010 3LSQCA45R 1MW

Issue Date: 1/29/2026

**Test Information**

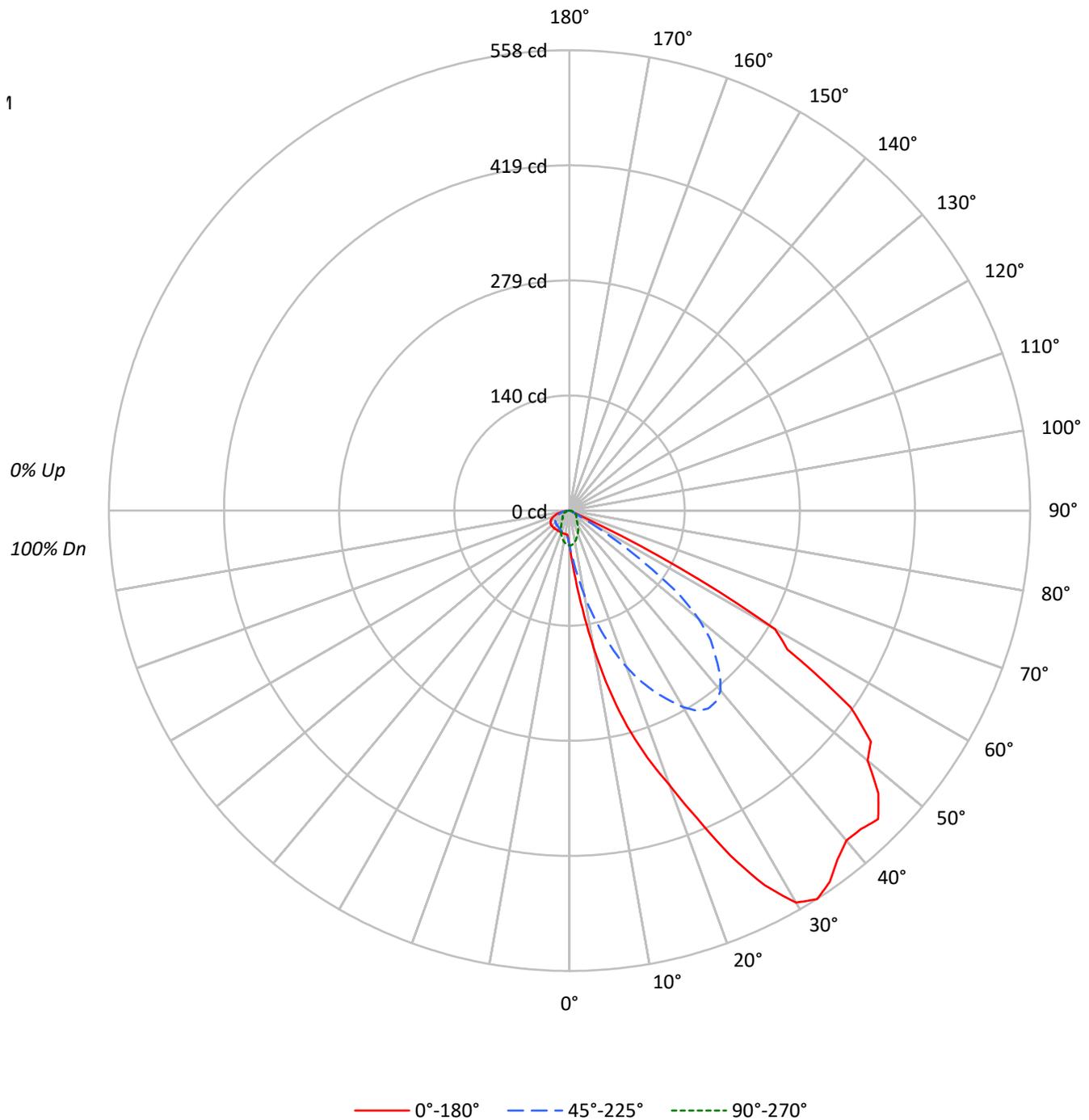
Test Method: LM-79-2019  
Report Number: P1319007  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-81)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D05R609835DE010 3LSQCA45R 1MW  
Description: 3in Adjustable LED luminaire with, R60 optic, 3500K CCT AND, 98CRI , 3LSQCA45R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 425.0 lumens  
Efficiency: N/A  
Efficacy: 59.0 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): 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

TEST NUMBER: P1319007  
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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°	7251	7251	7251	7251	7251
5°	14297	11151	7140	5411	5135
10°	29520	18170	6680	4932	5002
15°	48283	27280	5991	4957	5099
20°	64788	36967	5388	4948	5168
25°	87659	45891	4694	4922	5359
30°	109098	54628	3918	4912	5608
35°	115509	61560	3322	5046	5845
40°	117334	64006	3035	5216	6340
45°	128819	60963	2923	5553	6868
50°	126276	54658	2894	5894	7556
55°	124819	33509	2913	6366	8347
60°	98994	7991	3066	6786	9059
65°	6316	1426	2975	6928	9780
70°	1360	1561	2921	7201	10323
75°	1264	1530	2595	6920	10514
80°	1190	1488	2678	6943	9918
85°	790	1581	2964	6126	9880

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 15°  
 Vertical Angle: 52.5°  
 Luminance: 135965 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	5.3	1.2
10°-20°	26.5	6.2
20°-30°	61.5	14.5
30°-40°	95.5	22.5
40°-50°	108.9	25.6
50°-60°	91.7	21.6
60°-70°	26.6	6.3
70°-80°	6.8	1.6
80°-90°	2.3	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°	93.2	21.9
0°-40°	188.7	44.4
0°-60°	389.3	91.6
0°-90°	425.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	425.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	42	42	42	42	42	
5°	83	64	41	31	30	11
15°	271	153	34	28	29	78
25°	461	242	25	26	28	214
35°	549	293	16	24	28	341
45°	529	250	12	23	28	398
55°	416	112	10	21	28	350
65°	16	4	7	17	24	76
75°	2	2	4	10	16	2
85°	0	1	2	3	5	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°	42.1	42.1	42.1	42.1	42.1	42.1	42.1	42.1	42.1	42.1	42.1
2.5°	56.8	56.4	56.4	56.0	55.6	55.2	54.1	53.7	51.4	46.7	42.1
5°	82.7	82.3	81.1	80.7	78.8	76.1	73.4	70.7	64.5	51.4	41.3
7.5°	119.8	120.5	119.8	115.5	112.8	108.6	100.4	94.7	82.3	56.0	39.8
10°	168.8	168.8	167.7	161.1	155.3	147.2	136.8	126.7	103.9	60.3	38.2
12.5°	222.1	223.3	217.5	212.1	201.7	191.6	177.3	162.3	128.6	63.7	36.3
15°	270.8	270.0	264.3	257.3	246.5	232.6	217.5	198.2	153.0	66.1	33.6
17.5°	314.1	312.5	307.5	299.8	286.7	271.2	251.9	231.0	178.1	68.0	31.7
20°	353.5	348.1	342.3	334.2	321.4	305.2	285.1	261.5	201.7	68.0	29.4
22.5°	403.3	397.9	389.8	377.4	360.4	340.4	316.8	290.1	222.5	66.4	27.0
25°	461.3	457.0	443.1	427.3	405.3	381.3	353.9	318.0	241.5	64.1	24.7
27.5°	511.9	507.3	493.3	470.2	443.5	414.9	385.9	349.2	258.1	59.9	22.0
30°	548.6	542.8	532.0	510.0	477.5	442.7	408.4	373.2	274.7	54.9	19.7
32.5°	558.2	557.5	549.4	533.1	504.2	465.9	425.0	386.7	287.8	48.3	17.8
35°	549.4	550.5	549.0	540.9	519.6	482.1	435.8	394.1	292.8	41.7	15.8
37.5°	533.1	534.7	537.4	538.5	525.0	491.8	442.0	397.1	291.7	35.2	14.7
40°	521.9	521.2	521.2	528.9	526.2	496.0	442.7	394.8	284.7	28.2	13.5
42.5°	523.1	514.6	508.8	521.2	525.0	494.1	437.7	388.6	269.7	21.6	12.4
45°	528.9	510.7	500.7	516.5	522.7	487.5	428.4	379.4	250.3	15.1	12.0
47.5°	507.3	495.3	493.7	516.1	518.5	476.3	414.1	364.7	231.8	10.4	11.2
50°	471.3	469.4	477.5	500.7	501.1	457.8	397.9	338.0	204.0	7.3	10.8
52.5°	460.1	461.3	468.6	480.6	469.4	426.5	368.6	315.6	168.8	5.8	10.4
55°	415.7	417.6	424.6	431.9	423.8	388.3	333.0	288.6	111.6	5.4	9.7
57.5°	312.9	318.0	330.7	337.3	338.0	316.4	301.7	248.8	63.0	5.4	9.3
60°	287.4	280.9	275.1	261.5	249.2	246.5	248.0	186.6	23.2	5.0	8.9
62.5°	150.3	147.2	156.1	161.9	163.4	171.9	160.7	98.5	5.0	5.0	8.1
65°	15.5	15.5	18.9	25.1	41.7	55.6	52.9	28.6	3.5	4.6	7.3
67.5°	4.6	4.6	4.6	5.4	7.0	7.0	5.8	4.2	3.5	4.2	6.6
70°	2.7	2.7	2.7	2.7	2.7	2.7	3.1	2.7	3.1	3.9	5.8
72.5°	2.3	2.3	2.3	2.3	2.7	2.7	2.7	2.7	2.7	3.5	5.0
75°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.3	2.3	2.7	3.9
77.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.9	1.9	1.9	2.3	3.1
80°	1.2	1.2	1.2	1.2	1.2	1.5	1.5	1.5	1.5	1.9	2.7
82.5°	0.8	0.8	0.8	0.8	1.2	1.2	1.2	1.2	1.2	1.5	1.9
85°	0.4	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.2	1.5
87.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.8	0.8	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°	42.1	42.1	42.1	42.1
2.5°	38.2	35.5	34.0	33.2
5°	34.8	31.3	30.1	29.7
7.5°	31.7	29.4	29.0	29.0
10°	29.7	28.2	28.6	28.6
12.5°	28.6	28.2	28.6	29.0
15°	27.4	27.8	28.6	28.6
17.5°	26.7	27.4	28.2	28.6
20°	25.5	27.0	28.2	28.2
22.5°	24.7	26.7	27.8	28.2
25°	24.0	25.9	27.4	28.2
27.5°	22.8	25.5	27.4	27.8
30°	21.6	24.7	27.0	28.2
32.5°	20.5	24.3	27.0	27.8
35°	19.7	24.0	27.0	27.8
37.5°	18.9	23.6	27.0	28.2
40°	18.5	23.2	26.7	28.2
42.5°	17.8	23.2	26.7	28.2
45°	17.4	22.8	26.7	28.2
47.5°	17.0	22.4	26.7	28.2
50°	16.2	22.0	26.3	28.2
52.5°	15.8	21.6	26.3	28.2
55°	15.1	21.2	25.9	27.8
57.5°	14.7	20.5	25.5	27.0
60°	13.9	19.7	24.7	26.3
62.5°	12.7	18.5	23.6	25.5
65°	11.6	17.0	22.4	24.0
67.5°	10.4	15.8	20.9	22.4
70°	9.3	14.3	18.9	20.5
72.5°	8.1	12.4	17.0	18.2
75°	7.0	10.4	14.3	15.8
77.5°	5.4	8.5	12.0	13.1
80°	4.2	7.0	9.3	10.0
82.5°	3.5	5.0	7.0	7.3
85°	2.3	3.1	4.2	5.0
87.5°	1.2	1.5	1.9	2.3
90°	0.0	0.0	0.0	0.0

(END OF REPORT)