

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: P1311223

Luminaire Tested: LDSQA3D05R609040DE010 3LSQCA45R 1MMS

Issue Date: 1/29/2026

**Test Information**

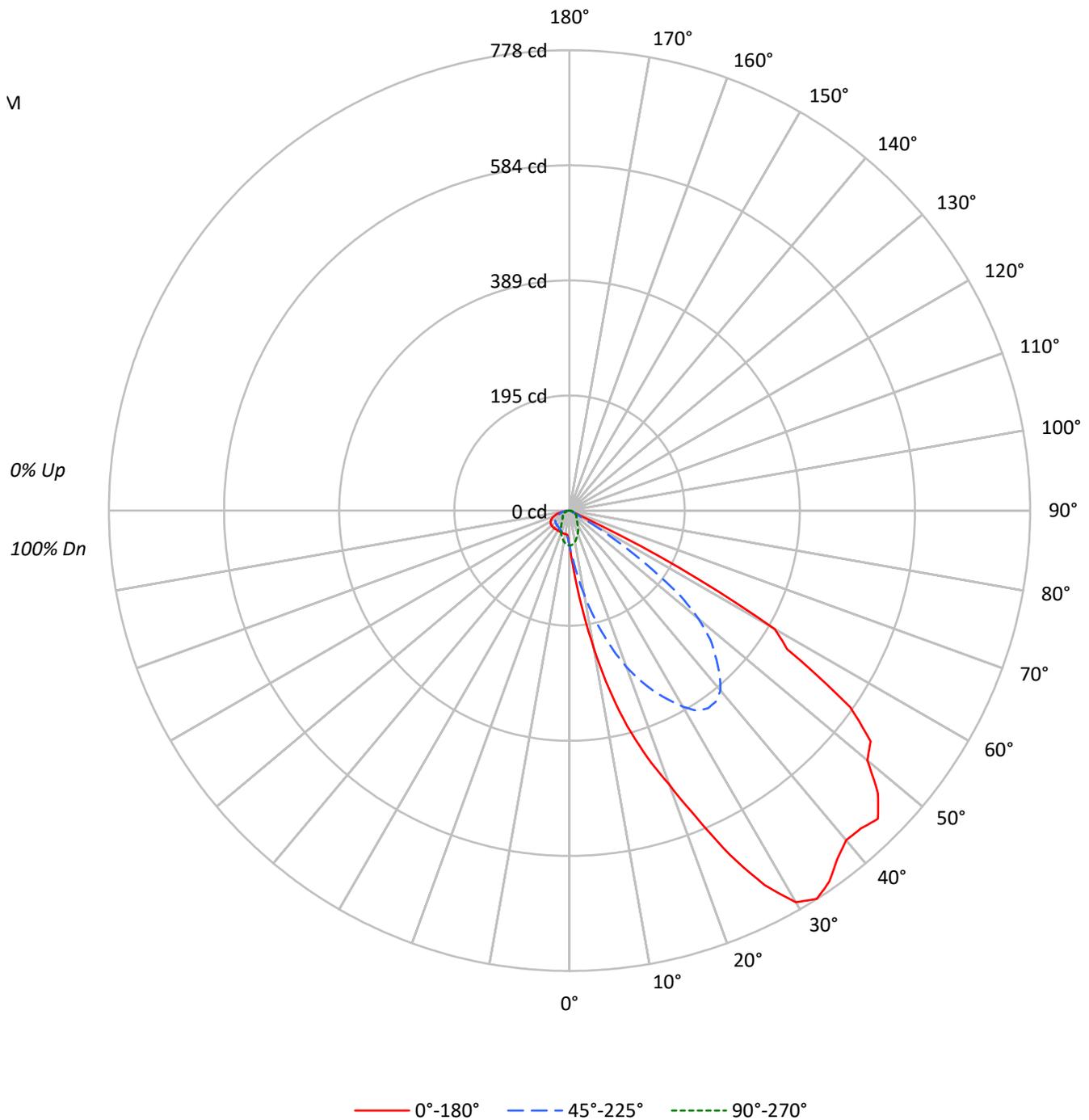
Test Method: LM-79-2019  
Report Number: P1311223  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-81)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D05R609040DE010 3LSQCA45R 1MMS  
Description: 3in Adjustable LED luminaire with, R60 optic, 4000K CCT AND, 90CRI , 3LSQCA45R 1MMS TRII  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 592.0 lumens  
Efficiency: N/A  
Efficacy: 82.2 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 (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	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°	10109	10109	10109	10109	10109
5°	19916	15542	9958	7538	7157
10°	41132	25323	9321	6873	6960
15°	67254	37995	8344	6900	7096
20°	90245	51482	7496	6909	7203
25°	122092	63906	6537	6860	7468
30°	151973	76086	5449	6841	7815
35°	160879	85759	4646	7022	8136
40°	163445	89164	4227	7262	8835
45°	179430	84929	4067	7745	9572
50°	175897	76119	4046	8225	10530
55°	173851	46691	4054	8888	11620
60°	137916	11126	4271	9438	12607
65°	8762	1956	4157	9658	13611
70°	1913	2165	4079	10021	14351
75°	1797	2129	3593	9649	14706
80°	1587	2182	3769	9620	13885
85°	988	2174	4347	8497	13832

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 15°  
 Vertical Angle: 52.5°  
 Luminance: 189378 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	7.3	1.2
10°-20°	36.9	6.2
20°-30°	85.6	14.5
30°-40°	133.1	22.5
40°-50°	151.6	25.6
50°-60°	127.7	21.6
60°-70°	37.1	6.3
70°-80°	9.5	1.6
80°-90°	3.2	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°	129.8	21.9
0°-40°	262.9	44.4
0°-60°	542.2	91.6
0°-90°	592.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	592.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	59	59	59	59	59	
5°	115	90	58	44	41	15
15°	377	213	47	39	40	109
25°	642	336	34	36	39	298
35°	765	408	22	33	39	475
45°	737	349	17	32	39	554
55°	579	156	14	30	39	487
65°	22	5	10	24	33	106
75°	3	3	5	14	22	3
85°	0	1	2	4	7	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°	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7
2.5°	79.1	78.6	78.6	78.0	77.5	77.0	75.3	74.8	71.6	65.1	58.7
5°	115.2	114.6	113.0	112.5	109.8	106.0	102.2	98.5	89.9	71.6	57.6
7.5°	166.8	167.9	166.8	160.9	157.1	151.2	139.9	131.8	114.6	78.0	55.4
10°	235.2	235.2	233.6	224.4	216.3	205.0	190.5	176.5	144.8	83.9	53.3
12.5°	309.4	311.0	303.0	295.4	280.9	266.9	247.0	226.0	179.2	88.8	50.6
15°	377.2	376.2	368.1	358.4	343.3	324.0	303.0	276.1	213.1	92.0	46.8
17.5°	437.5	435.4	428.4	417.6	399.3	377.8	350.9	321.8	248.1	94.7	44.1
20°	492.4	484.9	476.8	465.5	447.7	425.1	397.1	364.3	280.9	94.7	40.9
22.5°	561.8	554.3	543.0	525.8	502.1	474.1	441.3	404.1	310.0	92.6	37.7
25°	642.5	636.6	617.2	595.2	564.5	531.1	492.9	442.9	336.3	89.3	34.4
27.5°	713.0	706.6	687.2	654.9	617.8	578.0	537.6	486.5	359.5	83.4	30.7
30°	764.2	756.1	741.0	710.3	665.1	616.7	568.8	519.8	382.6	76.4	27.4
32.5°	777.6	776.5	765.2	742.6	702.3	649.0	591.9	538.7	400.9	67.3	24.8
35°	765.2	766.8	764.7	753.4	723.8	671.6	607.0	548.9	407.9	58.1	22.1
37.5°	742.6	744.8	748.5	750.2	731.3	685.0	615.6	553.2	406.3	49.0	20.4
40°	727.0	725.9	725.9	736.7	732.9	691.0	616.7	550.0	396.6	39.3	18.8
42.5°	728.6	716.8	708.7	725.9	731.3	688.3	609.7	541.4	375.6	30.1	17.2
45°	736.7	711.4	697.4	719.5	728.1	679.1	596.8	528.4	348.7	21.0	16.7
47.5°	706.6	689.9	687.7	718.9	722.2	663.5	576.9	508.0	322.9	14.5	15.6
50°	656.5	653.8	665.1	697.4	698.0	637.7	554.3	470.9	284.1	10.2	15.1
52.5°	640.9	642.5	652.8	669.4	653.8	594.1	513.4	439.7	235.2	8.1	14.5
55°	579.0	581.7	591.4	601.6	590.3	540.8	463.9	402.0	155.5	7.5	13.5
57.5°	435.9	442.9	460.6	469.8	470.9	440.7	420.3	346.6	87.7	7.5	12.9
60°	400.4	391.2	383.2	364.3	347.1	343.3	345.5	259.9	32.3	7.0	12.4
62.5°	209.3	205.0	217.4	225.5	227.6	239.5	223.9	137.2	7.0	7.0	11.3
65°	21.5	21.5	26.4	35.0	58.1	77.5	73.7	39.8	4.8	6.5	10.2
67.5°	6.5	6.5	6.5	7.5	9.7	9.7	8.1	5.9	4.8	5.9	9.1
70°	3.8	3.8	3.8	3.8	3.8	3.8	4.3	3.8	4.3	5.4	8.1
72.5°	3.2	3.2	3.2	3.2	3.8	3.8	3.8	3.8	3.8	4.8	7.0
75°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	3.2	3.2	3.8	5.4
77.5°	2.2	2.2	2.2	2.2	2.2	2.2	2.7	2.7	2.7	3.2	4.3
80°	1.6	1.6	1.6	1.6	1.6	2.2	2.2	2.2	2.2	2.7	3.8
82.5°	1.1	1.1	1.1	1.1	1.6	1.6	1.6	1.6	1.6	2.2	2.7
85°	0.5	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.6	2.2
87.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.1	1.1	1.6
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°	58.7	58.7	58.7	58.7
2.5°	53.3	49.5	47.4	46.3
5°	48.4	43.6	42.0	41.4
7.5°	44.1	40.9	40.4	40.4
10°	41.4	39.3	39.8	39.8
12.5°	39.8	39.3	39.8	40.4
15°	38.2	38.7	39.8	39.8
17.5°	37.1	38.2	39.3	39.8
20°	35.5	37.7	39.3	39.3
22.5°	34.4	37.1	38.7	39.3
25°	33.4	36.1	38.2	39.3
27.5°	31.8	35.5	38.2	38.7
30°	30.1	34.4	37.7	39.3
32.5°	28.5	33.9	37.7	38.7
35°	27.4	33.4	37.7	38.7
37.5°	26.4	32.8	37.7	39.3
40°	25.8	32.3	37.1	39.3
42.5°	24.8	32.3	37.1	39.3
45°	24.2	31.8	37.1	39.3
47.5°	23.7	31.2	37.1	39.3
50°	22.6	30.7	36.6	39.3
52.5°	22.1	30.1	36.6	39.3
55°	21.0	29.6	36.1	38.7
57.5°	20.4	28.5	35.5	37.7
60°	19.4	27.4	34.4	36.6
62.5°	17.8	25.8	32.8	35.5
65°	16.1	23.7	31.2	33.4
67.5°	14.5	22.1	29.1	31.2
70°	12.9	19.9	26.4	28.5
72.5°	11.3	17.2	23.7	25.3
75°	9.7	14.5	19.9	22.1
77.5°	7.5	11.8	16.7	18.3
80°	5.9	9.7	12.9	14.0
82.5°	4.8	7.0	9.7	10.2
85°	3.2	4.3	5.9	7.0
87.5°	1.6	2.2	2.7	3.2
90°	0.0	0.0	0.0	0.0

(END OF REPORT)