

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: P1308988

Luminaire Tested: LDSQA3D05R609030DE010 3LSQCA45R 1MW

Issue Date: 1/29/2026

**Test Information**

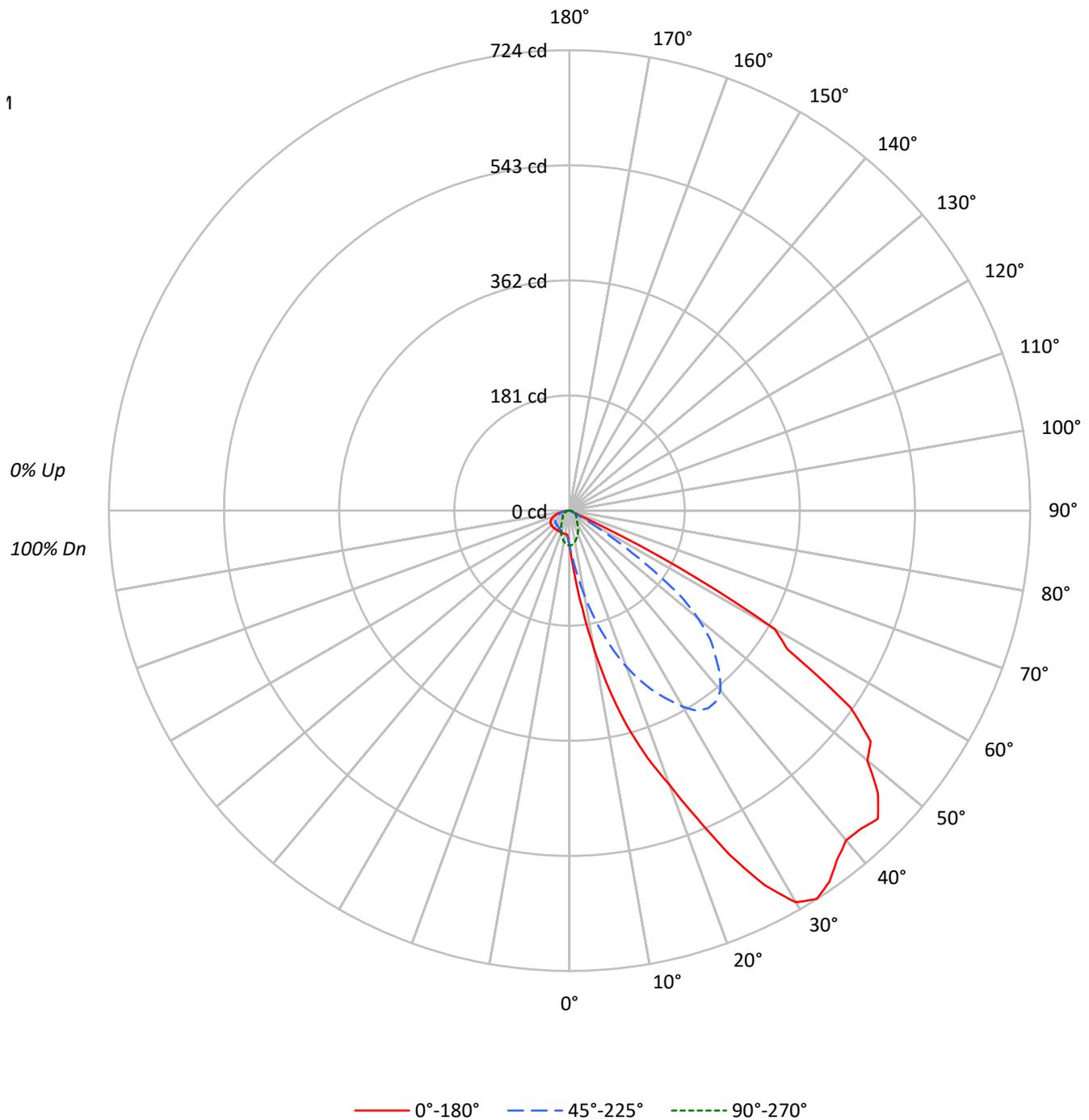
Test Method: LM-79-2019  
Report Number: P1308988  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-81)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D05R609030DE010 3LSQCA45R 1MW  
Description: 3in Adjustable LED luminaire with, R60 optic, 3000K CCT AND, 90CRI , 3LSQCA45R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 551.0 lumens  
Efficiency: N/A  
Efficacy: 76.5 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

TEST NUMBER: P1308988  
CATALOG NUMBER: LDSQA3D05R609030DE010 3LSQCA45R 1MW

### 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
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100
1	110	106	102	99	108	104	100	97	100	97	94	96	94	91	92	90	89	87	87	87
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	79	76	74	74	74
3	92	82	74	68	90	81	73	68	78	72	67	75	70	65	72	68	64	62	62	62
4	84	72	64	58	82	71	63	57	69	62	56	66	60	56	64	59	55	53	53	53
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45	45	45
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	39	39	39
7	65	51	42	36	63	50	42	36	49	41	36	47	41	36	46	40	35	33	33	33
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29	29	29
9	55	42	33	28	54	41	33	28	40	33	28	39	32	27	38	32	27	25	25	25
10	52	38	30	25	50	38	30	25	37	29	24	36	29	24	35	29	24	22	22	22

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

	0°	45°	90°	135°	180°
0°	9403	9403	9403	9403	9403
5°	18533	14453	9266	7019	6673
10°	38281	23556	8674	6401	6488
15°	62600	35356	7774	6437	6615
20°	83995	47927	6983	6433	6708
25°	113636	59478	6100	6385	6955
30°	141433	70816	5071	6384	7278
35°	149737	79830	4310	6539	7590
40°	152136	82981	3934	6767	8228
45°	167009	79059	3775	7209	8914
50°	163733	70868	3751	7636	9806
55°	161811	43478	3753	8257	10839
60°	128340	10368	3961	8783	11746
65°	8150	1834	3871	8965	12674
70°	1762	2014	3777	9316	13344
75°	1664	1996	3327	8983	13641
80°	1488	1984	3471	8926	12893
85°	988	1976	3952	7904	12844

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 15°  
 Vertical Angle: 52.5°  
 Luminance: 176279 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	6.8	1.2
10°-20°	34.4	6.2
20°-30°	79.7	14.5
30°-40°	123.9	22.5
40°-50°	141.1	25.6
50°-60°	118.9	21.6
60°-70°	34.5	6.3
70°-80°	8.8	1.6
80°-90°	3.0	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°	120.9	21.9
0°-40°	244.7	44.4
0°-60°	504.7	91.6
0°-90°	551.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	551.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	55	55	55	55	55	
5°	107	84	54	41	39	14
15°	351	198	44	36	37	102
25°	598	313	32	34	37	278
35°	712	380	20	31	36	442
45°	686	325	16	30	37	515
55°	539	145	12	28	36	453
65°	20	4	10	22	31	99
75°	2	3	5	14	20	3
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°	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6
2.5°	73.6	73.1	73.1	72.6	72.1	71.6	70.1	69.6	66.6	60.6	54.6
5°	107.2	106.7	105.2	104.7	102.2	98.7	95.2	91.7	83.6	66.6	53.6
7.5°	155.3	156.3	155.3	149.8	146.3	140.7	130.2	122.7	106.7	72.6	51.6
10°	218.9	218.9	217.4	208.9	201.3	190.8	177.3	164.3	134.7	78.1	49.6
12.5°	288.0	289.5	282.0	275.0	261.5	248.4	229.9	210.4	166.8	82.6	47.1
15°	351.1	350.1	342.6	333.6	319.6	301.5	282.0	256.9	198.3	85.6	43.6
17.5°	407.2	405.2	398.7	388.7	371.6	351.6	326.6	299.5	230.9	88.2	41.1
20°	458.3	451.3	443.8	433.2	416.7	395.7	369.6	339.1	261.5	88.2	38.1
22.5°	522.9	515.9	505.4	489.3	467.3	441.3	410.7	376.2	288.5	86.1	35.1
25°	598.0	592.5	574.5	554.0	525.4	494.4	458.8	412.2	313.0	83.1	32.1
27.5°	663.6	657.6	639.6	609.6	575.0	537.9	500.4	452.8	334.6	77.6	28.5
30°	711.2	703.7	689.7	661.1	619.1	574.0	529.4	483.8	356.1	71.1	25.5
32.5°	723.8	722.8	712.2	691.2	653.6	604.0	551.0	501.4	373.1	62.6	23.0
35°	712.2	713.7	711.7	701.2	673.7	625.1	565.0	510.9	379.7	54.1	20.5
37.5°	691.2	693.2	696.7	698.2	680.7	637.6	573.0	514.9	378.2	45.6	19.0
40°	676.7	675.7	675.7	685.7	682.2	643.1	574.0	511.9	369.1	36.6	17.5
42.5°	678.2	667.2	659.6	675.7	680.7	640.6	567.5	503.9	349.6	28.0	16.0
45°	685.7	662.1	649.1	669.7	677.7	632.1	555.5	491.9	324.6	19.5	15.5
47.5°	657.6	642.1	640.1	669.2	672.2	617.6	536.9	472.8	300.5	13.5	14.5
50°	611.1	608.6	619.1	649.1	649.6	593.5	515.9	438.3	264.5	9.5	14.0
52.5°	596.5	598.0	607.6	623.1	608.6	553.0	477.8	409.2	218.9	7.5	13.5
55°	538.9	541.4	550.5	560.0	549.5	503.4	431.7	374.1	144.8	7.0	12.5
57.5°	405.7	412.2	428.7	437.3	438.3	410.2	391.2	322.6	81.6	7.0	12.0
60°	372.6	364.1	356.6	339.1	323.1	319.6	321.6	241.9	30.1	6.5	11.5
62.5°	194.8	190.8	202.3	209.9	211.9	222.9	208.4	127.7	6.5	6.5	10.5
65°	20.0	20.0	24.5	32.6	54.1	72.1	68.6	37.1	4.5	6.0	9.5
67.5°	6.0	6.0	6.0	7.0	9.0	9.0	7.5	5.5	4.5	5.5	8.5
70°	3.5	3.5	3.5	3.5	3.5	3.5	4.0	3.5	4.0	5.0	7.5
72.5°	3.0	3.0	3.0	3.0	3.5	3.5	3.5	3.5	3.5	4.5	6.5
75°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	3.0	3.0	3.5	5.0
77.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.5	2.5	2.5	3.0	4.0
80°	1.5	1.5	1.5	1.5	1.5	2.0	2.0	2.0	2.0	2.5	3.5
82.5°	1.0	1.0	1.0	1.0	1.5	1.5	1.5	1.5	1.5	2.0	2.5
85°	0.5	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.5	2.0
87.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.0	1.0	1.5
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°	54.6	54.6	54.6	54.6
2.5°	49.6	46.1	44.1	43.1
5°	45.1	40.6	39.1	38.6
7.5°	41.1	38.1	37.6	37.6
10°	38.6	36.6	37.1	37.1
12.5°	37.1	36.6	37.1	37.6
15°	35.6	36.1	37.1	37.1
17.5°	34.6	35.6	36.6	37.1
20°	33.1	35.1	36.6	36.6
22.5°	32.1	34.6	36.1	36.6
25°	31.1	33.6	35.6	36.6
27.5°	29.6	33.1	35.6	36.1
30°	28.0	32.1	35.1	36.6
32.5°	26.5	31.6	35.1	36.1
35°	25.5	31.1	35.1	36.1
37.5°	24.5	30.6	35.1	36.6
40°	24.0	30.1	34.6	36.6
42.5°	23.0	30.1	34.6	36.6
45°	22.5	29.6	34.6	36.6
47.5°	22.0	29.1	34.6	36.6
50°	21.0	28.5	34.1	36.6
52.5°	20.5	28.0	34.1	36.6
55°	19.5	27.5	33.6	36.1
57.5°	19.0	26.5	33.1	35.1
60°	18.0	25.5	32.1	34.1
62.5°	16.5	24.0	30.6	33.1
65°	15.0	22.0	29.1	31.1
67.5°	13.5	20.5	27.0	29.1
70°	12.0	18.5	24.5	26.5
72.5°	10.5	16.0	22.0	23.5
75°	9.0	13.5	18.5	20.5
77.5°	7.0	11.0	15.5	17.0
80°	5.5	9.0	12.0	13.0
82.5°	4.5	6.5	9.0	9.5
85°	3.0	4.0	5.5	6.5
87.5°	1.5	2.0	2.5	3.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)