

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: P1307061

Luminaire Tested: LDSQA3D09R659024DE010 3LSQCA45R 1MMS

Issue Date: 1/29/2026

**Test Information**

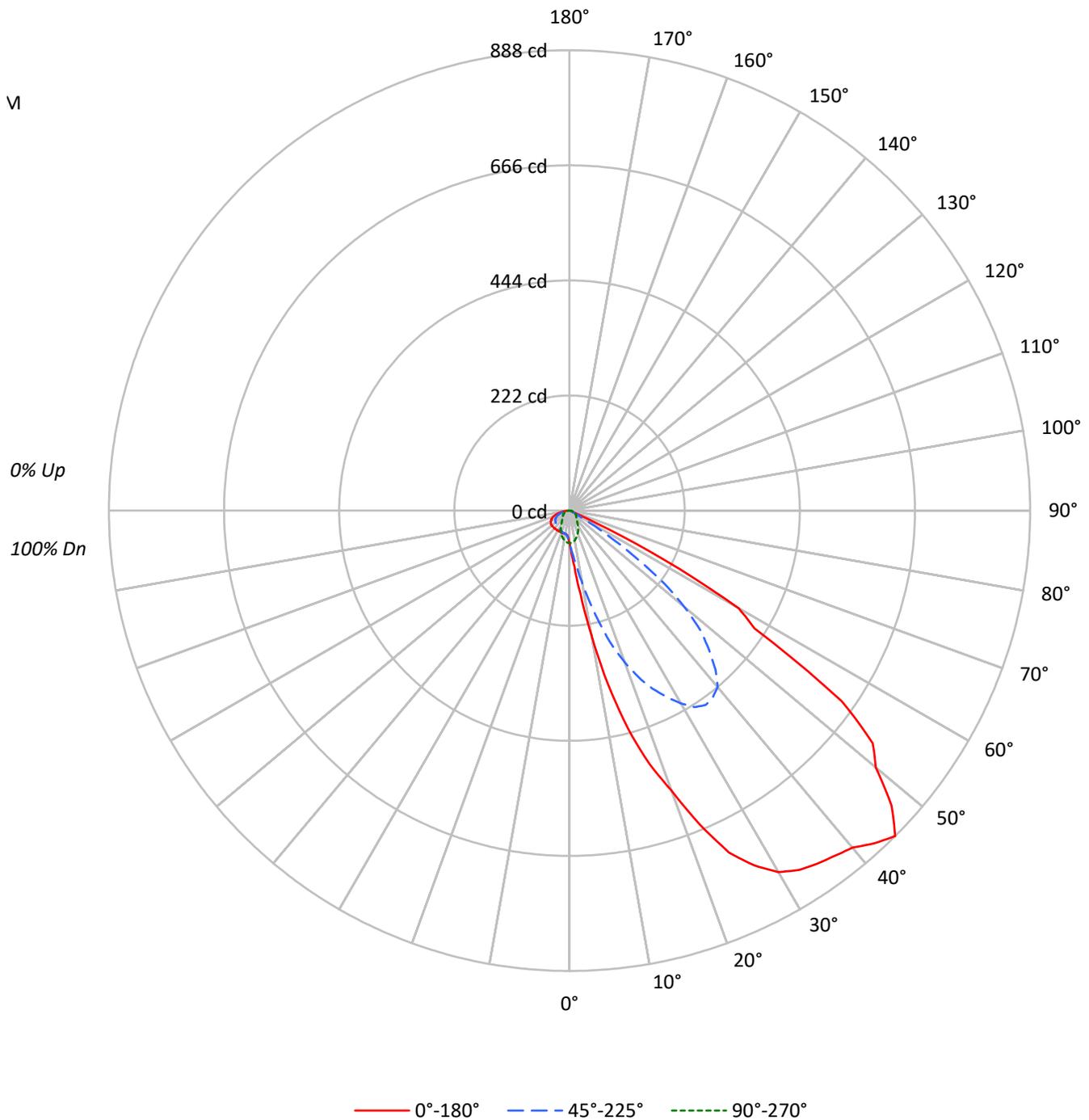
Test Method: LM-79-2019  
Report Number: P1307061  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-82)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D09R659024DE010 3LSQCA45R 1MMS  
Description: 3in Adjustable LED luminaire with, R65 optic, 2400K CCT AND, 90CRI , 3LSQCA45R 1MMS TRII  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 644.0 lumens  
Efficiency: N/A  
Efficacy: 58.0 lumens/watt  
Spacing Criteria (0/90/45): 3.28 / 0.89 / 2.04  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 11.1  
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	94	91	92	90	89	89	89	89	87
2	101	93	87	82	98	92	86	81	88	83	79	85	81	77	82	79	76	76	76	76	74
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	65	65	65	62
4	84	73	64	58	82	71	63	57	69	62	57	67	61	56	64	59	55	55	55	55	53
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	47	47	47	45
6	71	57	49	42	69	57	48	42	55	47	42	53	46	41	51	46	41	41	41	41	39
7	65	52	43	37	63	51	42	36	49	42	36	48	41	36	46	40	36	36	36	36	34
8	60	46	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31	31	31	31	29
9	56	42	34	28	54	41	33	28	40	33	28	39	33	28	38	32	28	28	28	28	26
10	52	38	30	25	50	38	30	25	37	30	25	36	29	25	35	29	24	24	24	24	23

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

	0°	45°	90°	135°	180°
0°	10781	10781	10781	10781	10781
5°	18861	15404	10598	8592	8264
10°	42688	24850	10160	7905	8009
15°	77595	39957	9432	7952	8166
20°	105200	57035	8522	7936	8284
25°	138282	72020	7487	7734	8475
30°	160127	85393	6423	7696	8869
35°	174861	96250	5424	7884	9377
40°	190760	99888	4789	8273	10027
45°	216257	92626	4555	8817	10863
50°	206575	77325	4501	9351	11950
55°	192527	43418	4654	10089	13181
60°	129684	9334	4684	10678	14226
65°	20009	2364	4483	11044	15526
70°	2266	2266	4230	11380	16567
75°	2129	2129	3859	11179	16769
80°	1884	2579	3868	10215	16662
85°	1186	2569	3754	10275	15215

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 216257 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	7.6	1.2
10°-20°	40.9	6.4
20°-30°	96.2	14.9
30°-40°	145.4	22.6
40°-50°	167.1	25.9
50°-60°	132.6	20.6
60°-70°	39.7	6.2
70°-80°	10.8	1.7
80°-90°	3.6	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°	144.7	22.5
0°-40°	290.1	45.0
0°-60°	589.8	91.6
0°-90°	644.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	644.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	63	63	63	63	63	
5°	109	89	61	50	48	15
15°	435	224	53	45	46	125
25°	728	379	39	41	45	332
35°	832	458	26	38	45	522
45°	888	380	19	36	45	660
55°	641	145	16	34	44	528
65°	49	6	11	27	38	110
75°	3	3	6	17	25	3
85°	1	1	2	5	8	1
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	45°	67.5°	90°	112.5°	135°
0°	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6
2.5°	79.4	80.1	79.4	79.4	78.8	78.1	73.6	68.4	62.6	58.1	54.9
5°	109.1	109.8	107.8	107.8	106.5	104.6	89.1	74.3	61.3	54.2	49.7
7.5°	161.4	164.0	160.8	156.9	149.8	148.5	111.1	80.1	60.1	50.4	46.5
10°	244.1	242.1	238.9	231.2	218.9	213.1	142.1	85.9	58.1	47.8	45.2
12.5°	344.2	339.0	335.1	320.9	304.1	294.4	180.8	91.0	55.5	45.2	44.6
15°	435.2	431.3	422.3	408.7	388.1	380.3	224.1	94.3	52.9	43.3	44.6
17.5°	512.1	508.2	503.0	489.5	468.1	456.5	272.5	96.2	49.7	42.0	43.9
20°	574.0	571.5	564.4	553.4	532.1	521.1	311.2	96.2	46.5	40.7	43.3
22.5°	654.1	648.3	639.3	623.1	596.6	579.9	348.0	94.3	43.3	39.4	42.0
25°	727.7	723.8	712.2	692.9	664.4	647.7	379.0	90.4	39.4	37.5	40.7
27.5°	771.6	769.0	758.1	738.1	706.4	693.5	404.9	84.6	35.5	35.5	40.0
30°	805.2	800.0	789.1	769.7	737.4	721.9	429.4	77.5	32.3	33.6	38.7
32.5°	822.0	820.1	810.4	793.6	761.9	744.5	449.4	68.4	28.4	32.3	38.1
35°	831.7	829.7	822.0	805.9	776.2	759.4	457.8	60.1	25.8	31.0	37.5
37.5°	839.4	837.5	827.8	811.7	782.0	764.5	453.9	51.0	23.2	29.7	36.8
40°	848.5	841.4	826.5	810.4	783.3	766.5	444.3	42.6	21.3	29.1	36.8
42.5°	870.4	845.9	822.6	807.8	782.0	762.6	416.5	33.6	19.4	27.8	36.2
45°	887.9	844.6	814.9	803.3	776.8	754.8	380.3	24.5	18.7	27.1	36.2
47.5°	842.0	815.5	802.0	795.5	767.1	743.2	342.9	16.8	18.1	26.5	35.5
50°	771.0	767.8	762.6	763.2	737.4	718.0	288.6	11.6	16.8	25.8	34.9
52.5°	736.8	732.9	723.8	717.4	691.6	674.8	228.6	9.0	16.1	25.2	34.2
55°	641.2	643.8	634.1	638.0	630.2	621.8	144.6	8.4	15.5	23.9	33.6
57.5°	422.3	435.2	457.8	484.9	509.5	526.3	78.1	8.4	14.2	23.2	32.3
60°	376.5	373.2	372.6	377.7	388.7	397.8	27.1	7.7	13.6	21.3	31.0
62.5°	206.0	204.7	224.1	257.0	276.4	278.3	7.7	7.7	12.3	20.0	29.1
65°	49.1	51.0	56.8	71.0	83.9	92.3	5.8	7.1	11.0	18.7	27.1
67.5°	7.7	8.4	8.4	10.3	11.6	11.6	5.2	6.5	9.7	16.8	25.2
70°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	5.8	8.4	14.9	22.6
72.5°	3.9	3.9	3.9	3.9	3.9	3.9	4.5	5.2	7.1	12.9	19.4
75°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	4.5	5.8	10.3	16.8
77.5°	2.6	2.6	2.6	2.6	2.6	2.6	3.2	3.9	5.2	8.4	13.6
80°	1.9	1.9	1.9	1.9	1.9	1.9	2.6	3.2	3.9	6.5	10.3
82.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.9	2.6	3.2	5.2	7.7
85°	0.6	0.6	0.6	0.6	1.3	1.3	1.3	1.9	1.9	3.2	5.2
87.5°	0.6	0.6	0.6	0.6	0.6	0.6	1.3	1.3	1.3	1.9	2.6
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):**

	157.5°	180°
0°	62.6	62.6
2.5°	52.9	52.3
5°	47.8	47.8
7.5°	45.8	45.8
10°	45.2	45.8
12.5°	45.2	45.8
15°	45.2	45.8
17.5°	45.2	45.8
20°	44.6	45.2
22.5°	43.9	44.6
25°	43.3	44.6
27.5°	42.6	44.6
30°	42.6	44.6
32.5°	42.6	44.6
35°	42.0	44.6
37.5°	42.0	44.6
40°	42.0	44.6
42.5°	42.0	44.6
45°	42.0	44.6
47.5°	42.0	44.6
50°	42.0	44.6
52.5°	41.3	44.6
55°	41.3	43.9
57.5°	40.0	42.6
60°	38.7	41.3
62.5°	37.5	40.0
65°	35.5	38.1
67.5°	33.6	35.5
70°	30.3	32.9
72.5°	27.1	29.1
75°	23.2	25.2
77.5°	19.4	21.3
80°	15.5	16.8
82.5°	11.0	12.3
85°	7.1	7.7
87.5°	3.2	3.2
90°	0.0	0.0

(END OF REPORT)