

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: P1325160

Luminaire Tested: LDSQA3D05R45W2N902750DE010 3LSQCA45R 1MB\_5000K

Issue Date: 1/29/2026

**Test Information**

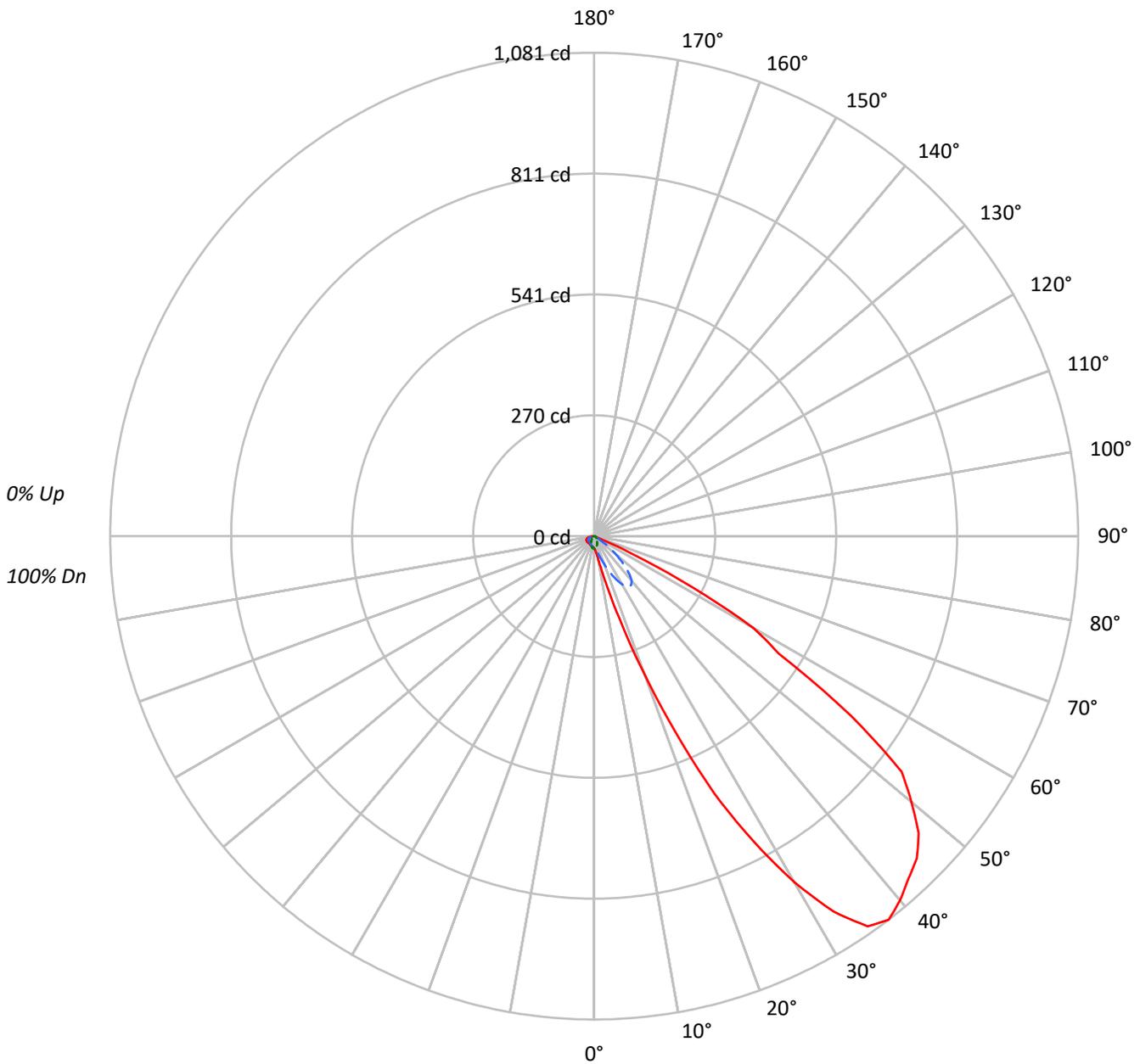
Test Method: LM-79-2019  
Report Number: P1325160  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-84)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D05R45W2N902750DE010 3LSQCA45R 1MB\_5000K  
Description: 3in Adjustable Tunable White LED luminaire with, R45 optic, 5000K CCT AND, 90CRI ,  
3LSQCA45R 1MB TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 483.1 lumens  
Efficiency: N/A  
Efficacy: 81.9 lumens/watt  
Spacing Criteria (0/90/45): 3.81 / 0.82 / 1.83  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 5.9  
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



— 0°-180°    - - 45°-225°    - - - 90°-270°



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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	107	104	100	97	99	97	94	96	93	91	92	90	88	86	86	86
2	100	93	86	81	98	91	85	80	87	83	78	84	80	77	81	78	75	73	73	73
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	61	61	61
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51	51	51
5	76	63	53	47	73	61	53	46	59	52	46	57	51	45	55	50	45	43	43	43
6	69	55	46	39	67	54	46	39	52	45	39	51	44	39	49	43	38	36	36	36
7	63	49	40	34	61	48	40	33	47	39	33	45	38	33	44	37	33	31	31	31
8	58	44	35	29	56	43	35	29	42	34	29	40	33	28	39	33	28	26	26	26
9	53	39	31	25	52	39	30	25	38	30	25	36	29	25	35	29	24	22	22	22
10	49	35	27	22	48	35	27	22	34	27	21	33	26	21	32	26	21	19	19	19

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

	0°	45°	90°	135°	180°
0°	4805	4805	4805	4805	4805
5°	5722	5307	4754	4408	4408
10°	9146	6208	4459	4180	4180
15°	22769	8327	4047	3923	4047
20°	59986	12426	3519	3739	3959
25°	120439	18433	3040	3496	3877
30°	177547	24679	2466	3420	3977
35°	223953	28951	2102	3364	4121
40°	238939	29249	1888	3507	4406
45°	248260	24405	1754	3800	4774
50°	247863	17014	1715	4073	5359
55°	210663	7537	1802	4564	5885
60°	141601	1516	1791	5098	6751
65°	37573	652	1793	5542	7661
70°	1007	806	1813	6043	8661
75°	799	799	1863	6388	9848
80°	793	1190	1984	6744	11108
85°	790	1581	3162	7114	11066

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 10°  
 Vertical Angle: 47.5°  
 Luminance: 254641 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2.8	0.6
10°-20°	13.6	2.8
20°-30°	56.2	11.6
30°-40°	118.4	24.5
40°-50°	146.1	30.2
50°-60°	109.5	22.7
60°-70°	28.2	5.8
70°-80°	5.9	1.2
80°-90°	2.4	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°	72.6	15.0
0°-40°	191.0	39.5
0°-60°	446.7	92.5
0°-90°	483.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	483.1	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	28	28	28	28	28	
5°	33	31	28	26	26	4
15°	128	47	23	22	23	47
25°	634	97	16	18	20	295
35°	1065	138	10	16	20	649
45°	1019	100	7	16	20	780
55°	702	25	6	15	20	606
65°	92	2	4	14	19	133
75°	1	1	3	10	15	1
85°	0	1	2	4	6	0
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	45°	67.5°	90°	112.5°
0°	27.9	27.9	27.9	27.9	27.9	27.9	27.9	27.9	27.9	27.9	27.9
2.5°	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.1	28.7	27.9	27.1
5°	33.1	32.7	32.7	32.7	32.3	31.9	31.9	30.7	29.1	27.5	26.3
7.5°	39.1	39.1	38.7	37.9	37.5	36.7	35.9	32.7	29.1	26.7	25.1
10°	52.3	51.5	50.3	49.5	47.5	44.7	42.7	35.5	28.7	25.5	24.3
12.5°	78.2	79.8	75.8	71.8	66.2	61.1	54.7	40.3	28.7	24.3	23.1
15°	127.7	130.5	122.9	114.9	101.4	88.6	76.6	46.7	27.9	22.7	21.6
17.5°	208.7	212.3	199.5	180.8	159.6	134.1	112.1	55.5	27.1	21.2	20.4
20°	327.3	326.9	302.1	278.6	237.9	200.3	159.2	67.8	25.9	19.2	19.2
22.5°	472.9	474.5	444.2	401.9	344.0	283.8	218.3	82.2	24.3	17.6	18.0
25°	633.8	620.2	584.3	532.8	459.0	375.5	289.3	97.0	22.7	16.0	16.8
27.5°	767.9	754.7	713.6	652.5	573.1	474.1	361.6	111.7	20.8	14.4	15.6
30°	892.8	876.0	826.5	757.5	662.9	555.9	429.4	124.1	18.4	12.4	14.4
32.5°	995.7	980.6	924.3	844.1	741.1	626.2	486.9	133.7	16.0	11.2	13.6
35°	1065.2	1049.6	997.7	909.5	797.4	677.3	533.6	137.7	14.0	10.0	13.2
37.5°	1081.1	1072.8	1035.6	953.0	836.1	710.0	563.5	136.5	11.6	9.2	12.4
40°	1062.8	1064.8	1047.2	978.6	856.8	724.0	575.9	130.1	9.6	8.4	12.0
42.5°	1039.2	1044.4	1043.2	988.9	865.6	724.7	570.7	117.3	7.6	7.6	11.6
45°	1019.3	1024.5	1031.7	984.6	859.6	714.4	554.3	100.2	5.6	7.2	11.6
47.5°	983.0	988.5	998.9	949.4	829.3	687.6	524.8	81.4	4.0	6.8	11.2
50°	925.1	927.9	925.1	869.6	771.0	644.5	476.9	63.5	2.8	6.4	11.2
52.5°	865.6	860.0	836.9	766.7	678.5	576.3	416.7	45.1	2.0	6.0	10.8
55°	701.6	692.8	675.7	632.6	582.3	492.5	336.8	25.1	2.0	6.0	10.4
57.5°	488.9	493.7	499.7	490.9	467.7	387.9	255.8	11.2	2.0	5.6	10.4
60°	411.1	407.1	407.5	401.9	363.6	283.0	176.0	4.4	2.0	5.2	10.0
62.5°	245.4	248.2	253.4	254.6	216.7	158.0	92.2	2.0	2.0	4.8	9.6
65°	92.2	96.6	84.6	73.4	58.3	42.7	21.6	1.6	2.4	4.4	8.8
67.5°	2.8	3.2	4.0	3.6	3.6	3.2	2.4	1.6	2.4	4.0	8.4
70°	2.0	2.0	2.0	2.0	2.0	1.6	1.6	1.6	2.0	3.6	7.6
72.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	2.0	3.2	6.8
75°	1.2	1.6	1.2	1.2	1.2	1.2	1.2	1.2	2.0	2.8	5.6
77.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.6	2.4	4.8
80°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.2	1.6	2.0	4.0
82.5°	0.8	0.8	0.8	0.4	0.8	0.8	0.8	0.8	1.6	1.6	3.2
85°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.8	1.2	1.6	2.0
87.5°	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.8	1.2	1.2	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):**

	135°	157.5°	180°
0°	27.9	27.9	27.9
2.5°	26.3	26.3	26.3
5°	25.5	25.5	25.5
7.5°	24.7	24.7	24.7
10°	23.9	23.9	23.9
12.5°	23.1	23.1	23.5
15°	22.0	22.7	22.7
17.5°	21.2	22.0	22.3
20°	20.4	21.2	21.6
22.5°	19.2	20.4	21.2
25°	18.4	20.0	20.4
27.5°	17.6	19.6	20.4
30°	17.2	19.2	20.0
32.5°	16.4	18.8	19.6
35°	16.0	18.8	19.6
37.5°	16.0	18.4	19.6
40°	15.6	18.4	19.6
42.5°	15.6	18.4	19.6
45°	15.6	18.4	19.6
47.5°	15.2	18.4	20.0
50°	15.2	18.8	20.0
52.5°	15.2	18.8	20.0
55°	15.2	18.8	19.6
57.5°	14.8	18.4	19.6
60°	14.8	18.4	19.6
62.5°	14.0	18.0	19.2
65°	13.6	17.6	18.8
67.5°	12.8	17.2	18.0
70°	12.0	16.0	17.2
72.5°	10.8	15.2	16.4
75°	9.6	14.0	14.8
77.5°	8.4	12.4	13.2
80°	6.8	10.4	11.2
82.5°	5.2	8.0	8.4
85°	3.6	5.2	5.6
87.5°	1.6	2.4	2.8
90°	0.0	0.0	0.0

(END OF REPORT)