

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: P1325145

Luminaire Tested: LDSQA3D05R45W2N902750DE010 3LSQCA30R 1MB\_5000K

Issue Date: 1/29/2026

**Test Information**

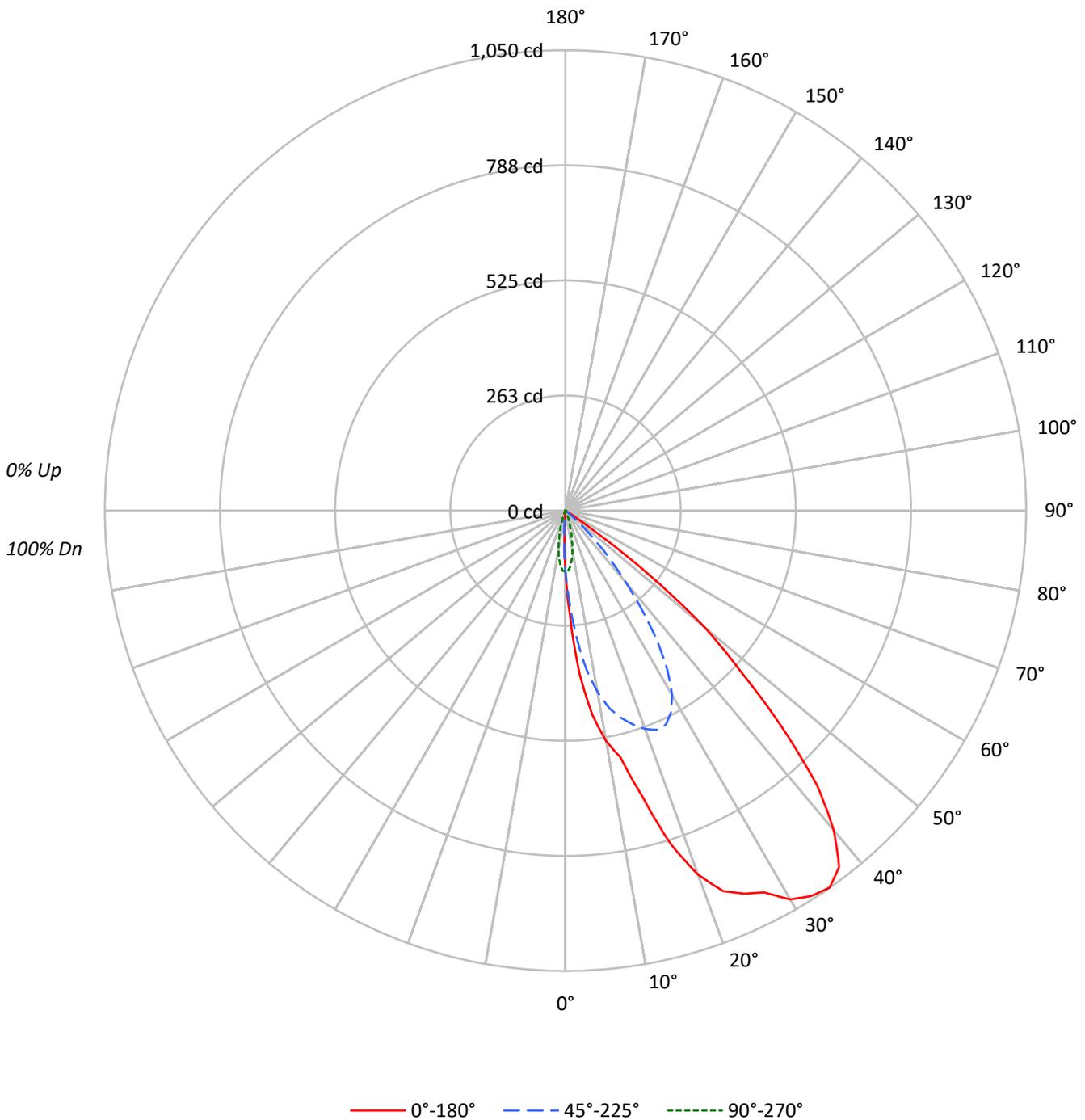
Test Method: LM-79-2019  
Report Number: P1325145  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-58)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D05R45W2N902750DE010 3LSQCA30R 1MB\_5000K  
Description: 3in Adjustable Tunable White LED luminaire with, R45 optic, 5000K CCT AND, 90CRI ,  
3LSQCA30R 1MB TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 445.0 lumens  
Efficiency: N/A  
Efficacy: 75.4 lumens/watt  
Spacing Criteria (0/90/45): 2.27 / 0.42 / 1.27  
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





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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	109	106	104	110	107	104	102	103	101	99	99	98	96	96	94	93	91
2	105	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	82
3	99	91	85	80	97	90	84	80	87	82	78	84	80	77	82	79	76	74
4	92	83	76	71	90	82	76	71	80	74	70	77	73	69	76	72	68	67
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	70	65	62	60
6	80	70	62	57	79	69	62	57	67	61	57	66	60	56	64	59	56	54
7	75	64	57	52	74	63	56	51	62	56	51	61	55	51	59	54	51	49
8	70	59	52	47	69	58	51	47	57	51	46	56	50	46	55	50	46	44
9	66	54	47	43	65	54	47	42	53	47	42	52	46	42	51	46	42	40
10	62	50	43	39	61	50	43	39	49	43	39	48	42	38	47	42	38	37

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

	0°	45°	90°	135°	180°
0°	23801	23801	23801	23801	23801
5°	64986	49997	22025	4426	1660
10°	93316	73344	15932	420	350
15°	120155	87241	8469	143	0
20°	161942	97081	3226	0	0
25°	183148	102538	836	0	0
30°	203599	96669	80	0	0
35°	220694	77097	0	0	0
40°	213917	48404	0	0	0
45°	169566	23065	0	0	0
50°	110977	2894	0	0	0
55°	19067	0	0	0	0
60°	0	0	138	0	0
65°	0	163	163	0	0
70°	0	201	403	0	0
75°	0	266	532	0	0
80°	0	397	793	397	0
85°	0	790	1581	790	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 169566 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	16.5	3.7
10°-20°	63.4	14.2
20°-30°	118.7	26.7
30°-40°	138.5	31.1
40°-50°	90.3	20.3
50°-60°	16.8	3.8
60°-70°	0.2	0.0
70°-80°	0.3	0.1
80°-90°	0.4	0.1
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°	198.5	44.6
0°-40°	337.0	75.7
0°-60°	444.2	99.8
0°-90°	445.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	445.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	138	138	138	138	138	
5°	376	289	127	26	10	40
15°	674	489	48	1	0	201
25°	964	540	4	0	0	446
35°	1050	367	0	0	0	644
45°	696	95	0	0	0	529
55°	64	0	0	0	0	110
65°	0	0	0	0	0	0
75°	0	0	1	0	0	0
85°	0	0	1	0	0	0
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	138.2	138.2	138.2	138.2	138.2	138.2	138.2	138.2	138.2	138.2	138.2
2.5°	243.7	245.7	241.7	240.1	234.9	236.1	227.3	223.7	218.1	208.9	204.5
5°	375.9	372.3	369.1	362.3	358.3	347.5	335.5	321.9	305.6	289.2	270.4
7.5°	470.1	467.3	466.1	460.6	452.6	441.4	425.8	408.6	387.5	365.5	337.1
10°	533.6	530.9	526.1	520.5	514.1	504.9	489.7	470.9	447.8	419.4	386.3
12.5°	575.2	574.8	566.8	560.4	552.4	544.4	528.9	513.7	490.9	461.7	424.2
15°	673.9	667.5	657.1	639.1	616.7	596.0	570.8	546.8	522.1	489.3	447.4
17.5°	796.9	789.7	772.1	749.3	713.4	673.9	630.7	592.8	555.6	511.3	461.7
20°	883.6	880.8	866.0	839.6	801.3	748.9	692.2	638.7	586.4	529.7	468.5
22.5°	939.1	937.5	931.5	913.5	874.4	815.7	742.6	670.7	607.5	541.2	466.5
25°	963.8	965.8	966.6	957.8	926.3	866.4	779.7	695.0	619.5	539.6	451.4
27.5°	981.4	981.4	984.6	980.6	948.7	885.6	794.1	703.4	615.5	520.1	419.4
30°	1023.8	1023.0	1025.0	1014.2	969.8	891.5	787.7	689.8	592.8	486.1	373.5
32.5°	1042.1	1042.9	1042.5	1025.4	973.8	887.5	772.1	663.9	550.8	433.0	312.8
35°	1049.7	1046.1	1031.3	992.2	927.1	834.4	728.2	619.9	492.1	366.7	246.9
37.5°	1024.6	1014.2	981.4	927.9	848.4	759.3	655.5	541.2	414.2	287.6	185.7
40°	951.5	937.9	896.7	832.0	759.3	679.0	569.6	449.0	323.9	215.3	130.2
42.5°	848.0	832.4	788.1	731.8	665.5	581.2	472.1	351.5	237.3	148.6	82.7
45°	696.2	687.4	661.9	614.3	549.2	461.7	361.9	256.4	164.2	94.7	42.3
47.5°	538.4	527.3	508.9	476.1	421.8	338.7	253.2	174.2	105.5	46.7	8.8
50°	414.2	401.0	378.7	342.3	285.6	226.1	164.2	108.6	53.5	10.8	0.4
52.5°	238.5	241.3	230.5	207.3	175.8	135.4	95.1	54.7	12.0	0.4	0.0
55°	63.5	68.7	67.1	72.3	63.5	53.5	39.5	10.4	0.8	0.0	0.0
57.5°	0.0	0.0	0.4	0.8	2.4	3.6	1.2	0.4	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.4
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.4
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.4
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.4
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.4
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):**

	55°	60°	67.5°	90°	112.5°	135°	157.5°	180°
0°	138.2	138.2	138.2	138.2	138.2	138.2	138.2	138.2
2.5°	194.5	186.1	175.8	137.4	103.5	74.3	57.9	53.5
5°	252.4	232.1	205.7	127.4	63.9	25.6	11.6	9.6
7.5°	307.2	277.2	229.7	111.4	32.4	6.4	3.2	2.8
10°	349.5	309.2	247.3	91.1	12.0	2.4	2.0	2.0
12.5°	378.7	329.5	253.6	69.1	4.4	1.2	1.2	0.8
15°	395.4	337.5	247.7	47.5	1.6	0.8	0.0	0.0
17.5°	400.6	334.3	231.7	30.0	0.4	0.0	0.0	0.0
20°	396.2	318.8	206.5	17.6	0.0	0.0	0.0	0.0
22.5°	381.9	294.4	176.2	9.6	0.0	0.0	0.0	0.0
25°	355.1	260.0	140.6	4.4	0.0	0.0	0.0	0.0
27.5°	311.6	215.7	105.9	1.6	0.0	0.0	0.0	0.0
30°	262.0	168.2	75.1	0.4	0.0	0.0	0.0	0.0
32.5°	204.5	123.8	48.3	0.0	0.0	0.0	0.0	0.0
35°	153.8	86.7	28.8	0.0	0.0	0.0	0.0	0.0
37.5°	107.0	54.7	15.2	0.0	0.0	0.0	0.0	0.0
40°	66.7	29.6	5.2	0.0	0.0	0.0	0.0	0.0
42.5°	37.1	10.4	0.4	0.0	0.0	0.0	0.0	0.0
45°	8.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0
60°	0.0	0.4	0.4	0.4	0.0	0.0	0.0	0.0
62.5°	0.4	0.4	0.4	0.4	0.0	0.0	0.0	0.0
65°	0.4	0.4	0.4	0.4	0.4	0.0	0.0	0.0
67.5°	0.4	0.4	0.4	0.4	0.4	0.0	0.0	0.0
70°	0.4	0.4	0.4	0.8	0.4	0.0	0.0	0.0
72.5°	0.4	0.4	0.8	0.8	0.4	0.0	0.0	0.0
75°	0.4	0.4	0.8	0.8	0.4	0.0	0.0	0.0
77.5°	0.4	0.8	0.8	0.8	0.4	0.4	0.0	0.0
80°	0.4	0.8	0.8	0.8	0.8	0.4	0.0	0.0
82.5°	0.4	0.8	0.8	0.8	0.8	0.4	0.0	0.0
85°	0.4	0.8	0.8	0.8	0.4	0.4	0.0	0.0
87.5°	0.4	0.8	0.8	0.8	0.8	0.4	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)