

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: P1323943

Luminaire Tested: LDSQA3D13R459030D2WDE010 3LSQCA45R 1MMS

Issue Date: 1/29/2026

**Test Information**

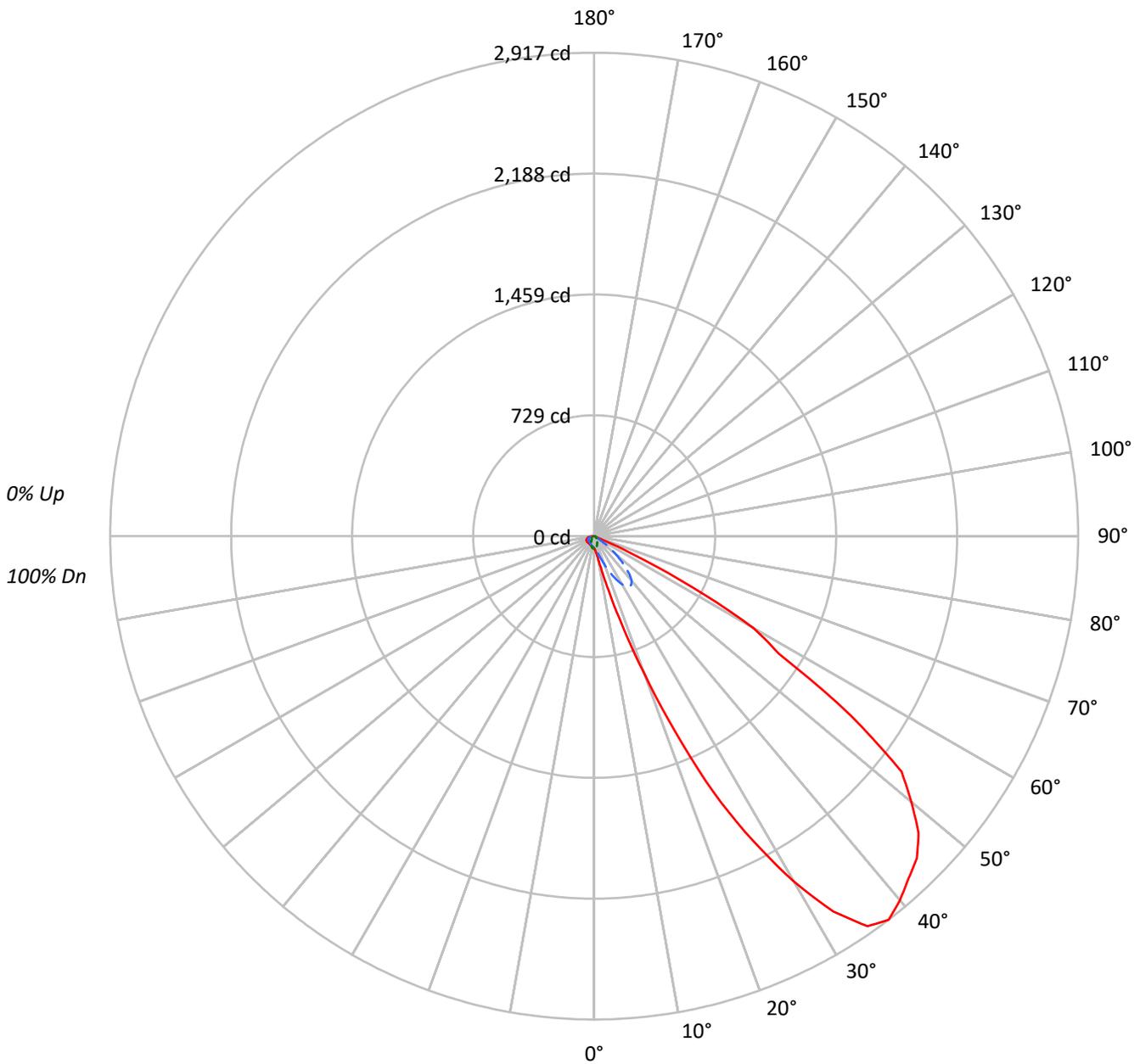
Test Method: LM-79-2019  
Report Number: P1323943  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-84)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D13R459030D2WDE010 3LSQCA45R 1MMS  
Description: 3in Adjustable Dim to Warm LED luminaire with, R45 optic, 3000K CCT AND, 90CRI ,  
3LSQCA45R 1MMS TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1303.0 lumens  
Efficiency: N/A  
Efficacy: 64.8 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): 20.1  
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



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

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

	0°	45°	90°	135°	180°
0°	12986	12986	12986	12986	12986
5°	15456	14332	12845	11911	11911
10°	24658	16753	12049	11297	11297
15°	61424	22466	10947	10555	10947
20°	161796	33539	9475	10062	10648
25°	324889	49711	8190	9406	10432
30°	478948	66580	6642	9207	10699
35°	604139	78085	5656	9062	11101
40°	644583	78912	5081	9442	11871
45°	669716	65810	4725	10230	12860
50°	668648	45870	4608	10958	14415
55°	568304	20358	4834	12281	15854
60°	381955	4064	4822	13709	18187
65°	101349	1752	4809	14915	20620
70°	2719	2165	4884	16265	23314
75°	2129	2129	4991	17168	26484
80°	2182	3174	5356	18150	29853
85°	2174	4347	8497	19168	29838

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 10°  
 Vertical Angle: 47.5°  
 Luminance: 686963 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	7.5	0.6
10°-20°	36.8	2.8
20°-30°	151.6	11.6
30°-40°	319.5	24.5
40°-50°	394.1	30.2
50°-60°	295.4	22.7
60°-70°	76.0	5.8
70°-80°	15.8	1.2
80°-90°	6.4	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°	195.8	15.0
0°-40°	515.3	39.5
0°-60°	1204.8	92.5
0°-90°	1303.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1303.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	75	75	75	75	75	
5°	89	83	74	69	69	10
15°	344	126	61	59	61	126
25°	1710	262	43	50	55	797
35°	2874	371	27	43	53	1751
45°	2750	270	19	42	53	2104
55°	1893	68	16	41	53	1634
65°	249	4	12	37	51	359
75°	3	3	8	26	40	4
85°	1	2	4	10	15	1
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°	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4
2.5°	79.7	79.7	79.7	79.7	79.7	79.7	79.7	78.6	77.5	75.4	73.2
5°	89.4	88.3	88.3	88.3	87.2	86.1	86.1	82.9	78.6	74.3	71.1
7.5°	105.5	105.5	104.4	102.3	101.2	99.1	96.9	88.3	78.6	72.1	67.8
10°	141.0	138.9	135.7	133.5	128.1	120.6	115.2	95.8	77.5	68.9	65.7
12.5°	211.0	215.3	204.6	193.8	178.7	164.7	147.5	108.7	77.5	65.7	62.4
15°	344.5	352.1	331.6	310.1	273.5	239.0	206.7	126.0	75.4	61.4	58.1
17.5°	563.1	572.8	538.3	487.7	430.7	361.8	302.5	149.7	73.2	57.1	54.9
20°	882.8	881.8	815.0	751.5	641.7	540.5	429.6	183.0	70.0	51.7	51.7
22.5°	1275.8	1280.1	1198.3	1084.2	928.1	765.5	588.9	221.8	65.7	47.4	48.4
25°	1709.7	1673.1	1576.2	1437.3	1238.1	1013.1	780.6	261.6	61.4	43.1	45.2
27.5°	2071.5	2035.9	1925.0	1760.3	1546.1	1279.0	975.4	301.5	56.0	38.8	42.0
30°	2408.4	2363.2	2229.7	2043.5	1788.3	1499.8	1158.5	334.8	49.5	33.4	38.8
32.5°	2686.2	2645.3	2493.5	2277.1	1999.3	1689.2	1313.5	360.7	43.1	30.1	36.6
35°	2873.5	2831.6	2691.6	2453.7	2151.1	1827.1	1439.5	371.4	37.7	26.9	35.5
37.5°	2916.6	2894.0	2793.9	2571.0	2255.6	1915.3	1520.2	368.2	31.2	24.8	33.4
40°	2867.1	2872.5	2825.1	2639.9	2311.5	1953.0	1553.6	351.0	25.8	22.6	32.3
42.5°	2803.6	2817.6	2814.3	2667.9	2335.2	1955.2	1539.6	316.5	20.5	20.5	31.2
45°	2749.7	2763.7	2783.1	2656.1	2319.1	1927.2	1495.4	270.2	15.1	19.4	31.2
47.5°	2651.8	2666.8	2694.8	2561.3	2237.3	1855.0	1415.8	219.6	10.8	18.3	30.1
50°	2495.6	2503.2	2495.6	2346.0	2080.1	1738.8	1286.6	171.2	7.5	17.2	30.1
52.5°	2335.2	2320.2	2257.7	2068.2	1830.3	1554.7	1124.0	121.7	5.4	16.1	29.1
55°	1892.7	1869.0	1822.7	1706.5	1570.8	1328.6	908.7	67.8	5.4	16.1	28.0
57.5°	1318.9	1331.8	1347.9	1324.3	1261.8	1046.5	690.1	30.1	5.4	15.1	28.0
60°	1108.9	1098.2	1099.2	1084.2	980.8	763.3	474.8	11.8	5.4	14.0	26.9
62.5°	662.1	669.7	683.7	686.9	584.6	426.3	248.7	5.4	5.4	12.9	25.8
65°	248.7	260.5	228.2	198.1	157.2	115.2	58.1	4.3	6.5	11.8	23.7
67.5°	7.5	8.6	10.8	9.7	9.7	8.6	6.5	4.3	6.5	10.8	22.6
70°	5.4	5.4	5.4	5.4	5.4	4.3	4.3	4.3	5.4	9.7	20.5
72.5°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	5.4	8.6	18.3
75°	3.2	4.3	3.2	3.2	3.2	3.2	3.2	3.2	5.4	7.5	15.1
77.5°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	4.3	6.5	12.9
80°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	3.2	4.3	5.4	10.8
82.5°	2.2	2.2	2.2	1.1	2.2	2.2	2.2	2.2	4.3	4.3	8.6
85°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	2.2	3.2	4.3	5.4
87.5°	0.0	0.0	0.0	0.0	1.1	1.1	1.1	2.2	3.2	3.2	3.2
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°	75.4	75.4	75.4
2.5°	71.1	71.1	71.1
5°	68.9	68.9	68.9
7.5°	66.8	66.8	66.8
10°	64.6	64.6	64.6
12.5°	62.4	62.4	63.5
15°	59.2	61.4	61.4
17.5°	57.1	59.2	60.3
20°	54.9	57.1	58.1
22.5°	51.7	54.9	57.1
25°	49.5	53.8	54.9
27.5°	47.4	52.8	54.9
30°	46.3	51.7	53.8
32.5°	44.1	50.6	52.8
35°	43.1	50.6	52.8
37.5°	43.1	49.5	52.8
40°	42.0	49.5	52.8
42.5°	42.0	49.5	52.8
45°	42.0	49.5	52.8
47.5°	40.9	49.5	53.8
50°	40.9	50.6	53.8
52.5°	40.9	50.6	53.8
55°	40.9	50.6	52.8
57.5°	39.8	49.5	52.8
60°	39.8	49.5	52.8
62.5°	37.7	48.4	51.7
65°	36.6	47.4	50.6
67.5°	34.5	46.3	48.4
70°	32.3	43.1	46.3
72.5°	29.1	40.9	44.1
75°	25.8	37.7	39.8
77.5°	22.6	33.4	35.5
80°	18.3	28.0	30.1
82.5°	14.0	21.5	22.6
85°	9.7	14.0	15.1
87.5°	4.3	6.5	7.5
90°	0.0	0.0	0.0

(END OF REPORT)