

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: P1318687

Luminaire Tested: LDSQA3D20R459830D010 3LSQCA45R 1MMS

Issue Date: 1/29/2026

**Test Information**

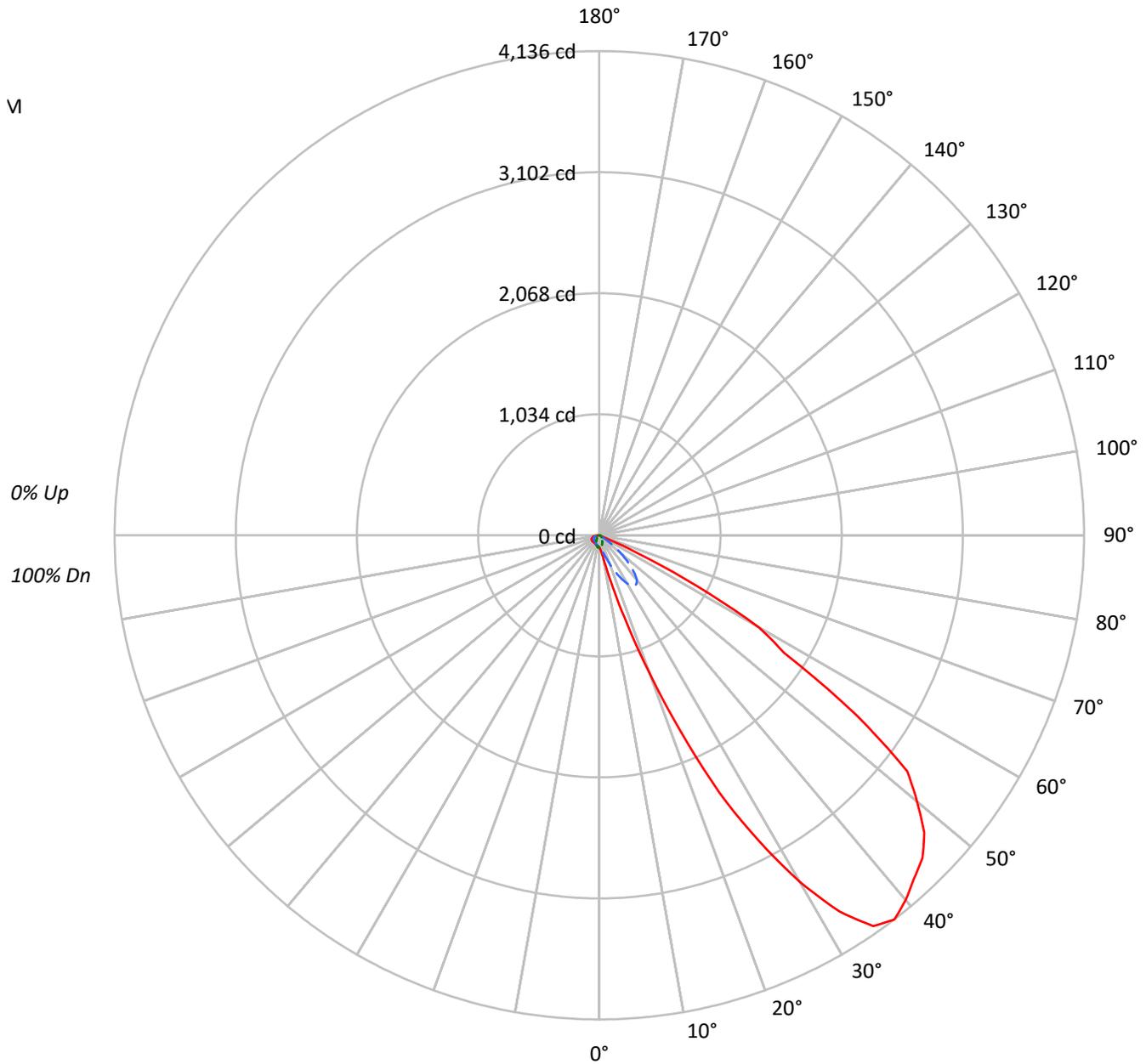
Test Method: LM-79-2019  
Report Number: P1318687  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-84)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D20R459830D010 3LSQCA45R 1MMS  
Description: 3in Adjustable LED luminaire with, R45 optic, 3000K CCT AND, 98CRI , 3LSQCA45R 1MMS TRII  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1848.0 lumens  
Efficiency: N/A  
Efficacy: 67.4 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): 27.4  
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°	18411	18411	18411	18411	18411
5°	21904	20331	18222	16890	16890
10°	34976	23766	17086	16019	16019
15°	87116	31862	15512	14977	15512
20°	229479	47578	13434	14277	15120
25°	460777	70519	11611	13340	14803
30°	679285	94441	9406	13065	15173
35°	856833	110757	8031	12846	15726
40°	914188	111916	7217	13399	16817
45°	949834	93356	6698	14516	18218
50°	948341	65054	6538	15540	20443
55°	806021	28885	6876	17415	22460
60°	541744	5787	6854	19461	25765
65°	143730	2486	6846	21150	29259
70°	3827	3072	6899	23062	33083
75°	3061	3061	7120	24354	37596
80°	3075	4562	7538	25787	42449
85°	2964	6126	12054	27072	42287

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 10°  
 Vertical Angle: 47.5°  
 Luminance: 974311 cd/sqm



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CATALOG NUMBER: LDSQA3D20R459830D010 3LSQCA45R 1MMS

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	10.6	0.6
10°-20°	52.1	2.8
20°-30°	215.0	11.6
30°-40°	453.1	24.5
40°-50°	559.0	30.2
50°-60°	419.0	22.7
60°-70°	107.8	5.8
70°-80°	22.3	1.2
80°-90°	9.1	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°	277.7	15.0
0°-40°	730.8	39.5
0°-60°	1708.8	92.5
0°-90°	1848.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1848.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	107	107	107	107	107	
5°	127	118	105	98	98	14
15°	489	179	87	84	87	179
25°	2425	371	61	70	78	1130
35°	4075	527	38	61	75	2484
45°	3900	383	28	60	75	2984
55°	2684	96	23	58	75	2318
65°	353	6	17	52	72	509
75°	5	5	11	37	56	5
85°	2	3	6	14	21	2
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°	106.9	106.9	106.9	106.9	106.9	106.9	106.9	106.9	106.9	106.9	106.9
2.5°	113.0	113.0	113.0	113.0	113.0	113.0	113.0	111.5	109.9	106.9	103.8
5°	126.7	125.2	125.2	125.2	123.7	122.2	122.2	117.6	111.5	105.4	100.8
7.5°	149.6	149.6	148.1	145.1	143.5	140.5	137.4	125.2	111.5	102.3	96.2
10°	200.0	197.0	192.4	189.3	181.7	171.0	163.4	135.9	109.9	97.7	93.1
12.5°	299.3	305.4	290.1	274.9	253.5	233.6	209.2	154.2	109.9	93.1	88.6
15°	488.6	499.3	470.3	439.8	387.8	339.0	293.2	178.7	106.9	87.0	82.5
17.5°	798.6	812.3	763.5	691.7	610.8	513.1	429.1	212.2	103.8	80.9	77.9
20°	1252.1	1250.6	1155.9	1065.8	910.1	766.5	609.3	259.6	99.3	73.3	73.3
22.5°	1809.4	1815.6	1699.5	1537.6	1316.2	1085.7	835.2	314.6	93.1	67.2	68.7
25°	2424.8	2372.9	2235.5	2038.5	1756.0	1436.9	1107.0	371.1	87.0	61.1	64.1
27.5°	2937.9	2887.5	2730.2	2496.6	2192.7	1814.0	1383.4	427.5	79.4	55.0	59.6
30°	3415.8	3351.7	3162.3	2898.2	2536.3	2127.1	1643.0	474.9	70.2	47.3	55.0
32.5°	3809.8	3751.7	3536.4	3229.5	2835.6	2395.8	1862.9	511.5	61.1	42.8	51.9
35°	4075.4	4015.9	3817.4	3479.9	3050.9	2591.2	2041.5	526.8	53.4	38.2	50.4
37.5°	4136.5	4104.5	3962.5	3646.4	3199.0	2716.5	2156.1	522.2	44.3	35.1	47.3
40°	4066.3	4073.9	4006.7	3744.1	3278.4	2769.9	2203.4	497.8	36.6	32.1	45.8
42.5°	3976.2	3996.0	3991.5	3783.8	3312.0	2773.0	2183.5	448.9	29.0	29.0	44.3
45°	3899.8	3919.7	3947.2	3767.0	3289.1	2733.3	2120.9	383.3	21.4	27.5	44.3
47.5°	3760.9	3782.3	3822.0	3632.6	3173.0	2630.9	2007.9	311.5	15.3	26.0	42.8
50°	3539.5	3550.2	3539.5	3327.2	2950.1	2466.0	1824.7	242.8	10.7	24.4	42.8
52.5°	3312.0	3290.6	3202.0	2933.3	2595.8	2204.9	1594.1	172.5	7.6	22.9	41.2
55°	2684.4	2650.8	2585.1	2420.2	2227.8	1884.3	1288.8	96.2	7.6	22.9	39.7
57.5°	1870.5	1888.8	1911.8	1878.2	1789.6	1484.2	978.8	42.8	7.6	21.4	39.7
60°	1572.8	1557.5	1559.0	1537.6	1391.1	1082.6	673.4	16.8	7.6	19.9	38.2
62.5°	939.1	949.8	969.6	974.2	829.1	604.7	352.7	7.6	7.6	18.3	36.6
65°	352.7	369.5	323.7	281.0	222.9	163.4	82.5	6.1	9.2	16.8	33.6
67.5°	10.7	12.2	15.3	13.7	13.7	12.2	9.2	6.1	9.2	15.3	32.1
70°	7.6	7.6	7.6	7.6	7.6	6.1	6.1	6.1	7.6	13.7	29.0
72.5°	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	7.6	12.2	26.0
75°	4.6	6.1	4.6	4.6	4.6	4.6	4.6	4.6	7.6	10.7	21.4
77.5°	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	6.1	9.2	18.3
80°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	4.6	6.1	7.6	15.3
82.5°	3.1	3.1	3.1	1.5	3.1	3.1	3.1	3.1	6.1	6.1	12.2
85°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	3.1	4.6	6.1	7.6
87.5°	0.0	0.0	0.0	0.0	1.5	1.5	1.5	3.1	4.6	4.6	4.6
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):**

	135°	157.5°	180°
0°	106.9	106.9	106.9
2.5°	100.8	100.8	100.8
5°	97.7	97.7	97.7
7.5°	94.7	94.7	94.7
10°	91.6	91.6	91.6
12.5°	88.6	88.6	90.1
15°	84.0	87.0	87.0
17.5°	80.9	84.0	85.5
20°	77.9	80.9	82.5
22.5°	73.3	77.9	80.9
25°	70.2	76.3	77.9
27.5°	67.2	74.8	77.9
30°	65.7	73.3	76.3
32.5°	62.6	71.8	74.8
35°	61.1	71.8	74.8
37.5°	61.1	70.2	74.8
40°	59.6	70.2	74.8
42.5°	59.6	70.2	74.8
45°	59.6	70.2	74.8
47.5°	58.0	70.2	76.3
50°	58.0	71.8	76.3
52.5°	58.0	71.8	76.3
55°	58.0	71.8	74.8
57.5°	56.5	70.2	74.8
60°	56.5	70.2	74.8
62.5°	53.4	68.7	73.3
65°	51.9	67.2	71.8
67.5°	48.9	65.7	68.7
70°	45.8	61.1	65.7
72.5°	41.2	58.0	62.6
75°	36.6	53.4	56.5
77.5°	32.1	47.3	50.4
80°	26.0	39.7	42.8
82.5°	19.9	30.5	32.1
85°	13.7	19.9	21.4
87.5°	6.1	9.2	10.7
90°	0.0	0.0	0.0

(END OF REPORT)