

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: P1320457

Luminaire Tested: LDSQA3D20R559840D010 3LSQCA45R 1MMS

Issue Date: 1/29/2026

**Test Information**

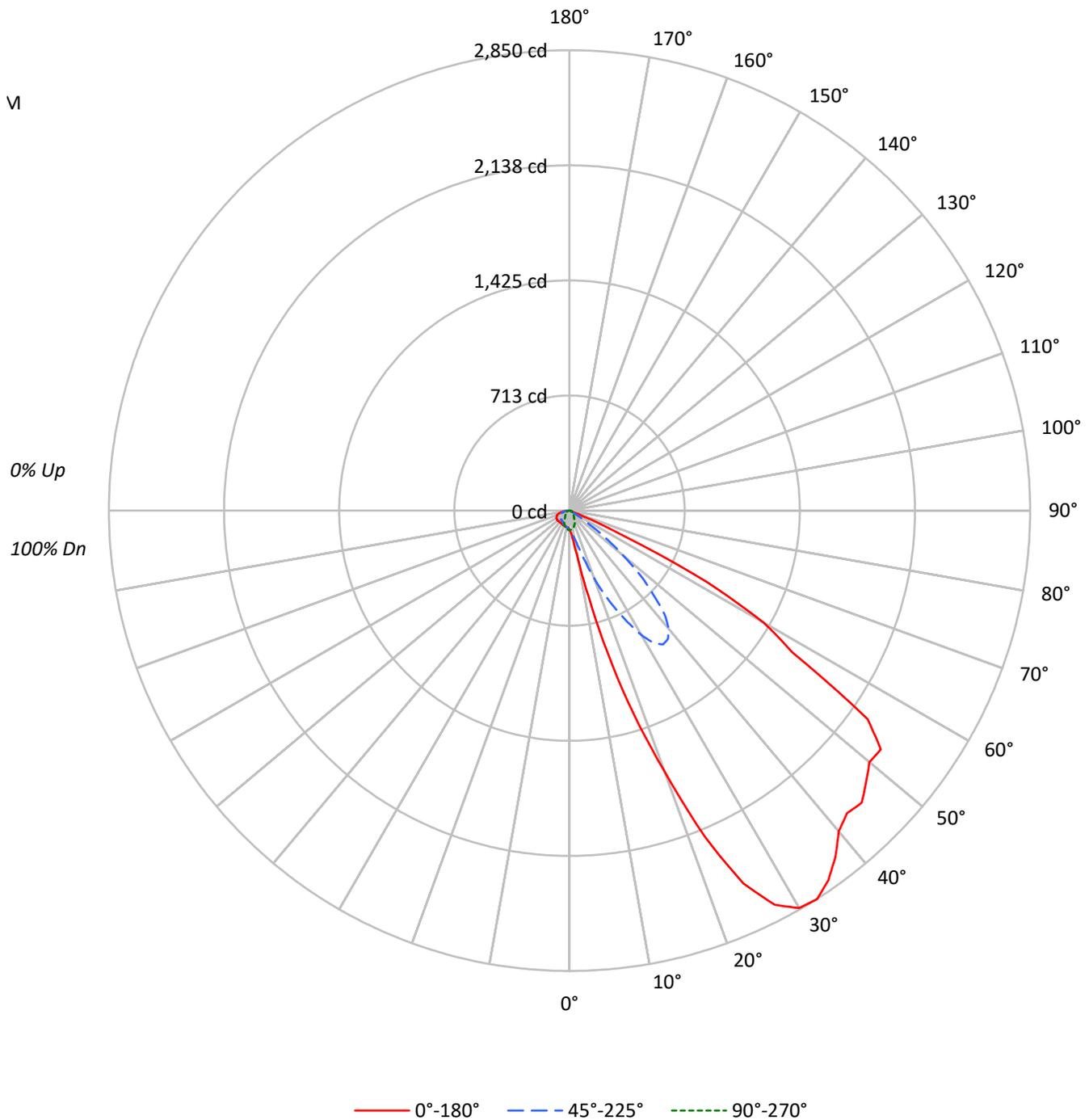
Test Method: LM-79-2019  
Report Number: P1320457  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-80)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D20R559840D010 3LSQCA45R 1MMS  
Description: 3in Adjustable LED luminaire with, R55 optic, 4000K CCT AND, 98CRI , 3LSQCA45R 1MMS TRII  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1833.0 lumens  
Efficiency: N/A  
Efficacy: 66.9 lumens/watt  
Spacing Criteria (0/90/45): 3.76 / 0.91 / 1.95  
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





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				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	95	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	67	77	71	65	74	69	64	72	67	63	63	63	63	61
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54	54	54	54	51
5	76	63	54	47	74	62	53	47	60	52	47	58	51	46	56	50	46	46	46	46	43
6	69	56	47	40	68	55	46	40	53	46	40	51	45	39	50	44	39	39	39	39	37
7	64	50	41	35	62	49	41	35	48	40	34	46	39	34	45	38	34	34	34	34	32
8	59	45	36	30	57	44	36	30	43	35	30	41	35	29	40	34	29	29	29	29	27
9	54	40	32	26	53	40	32	26	39	31	26	38	31	26	36	30	26	26	26	26	24
10	50	37	28	23	49	36	28	23	35	28	23	34	27	23	33	27	23	23	23	23	21

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

	0°	45°	90°	135°	180°
0°	20357	20357	20357	20357	20357
5°	26036	23806	20434	19034	18481
10°	52971	30307	19831	18135	18135
15°	162572	46482	18490	17616	18186
20°	314336	81338	16623	17210	18108
25°	483808	126482	14461	16627	18167
30°	564917	176811	11912	16426	18673
35°	587025	212474	9882	16336	19406
40°	582578	214456	9105	17109	21111
45°	622855	177506	8671	18535	22870
50°	649170	117166	8681	19961	25614
55°	675948	51074	8768	21889	28195
60°	477504	11711	8921	23973	31792
65°	155752	3953	8599	25755	35657
70°	4884	4079	8963	27745	40787
75°	4325	4325	7519	29079	45248
80°	3174	4860	8034	28960	48201
85°	3162	6323	9683	28850	48018

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 52.5°  
 Luminance: 686812 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	12.5	0.7
10°-20°	77.8	4.2
20°-30°	260.9	14.2
30°-40°	428.5	23.4
40°-50°	477.9	26.1
50°-60°	402.2	21.9
60°-70°	136.5	7.4
70°-80°	26.7	1.5
80°-90°	10.0	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°	351.3	19.2
0°-40°	779.7	42.5
0°-60°	1659.8	90.6
0°-90°	1833.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1833.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	118	118	118	118	118	
5°	151	138	118	110	107	19
15°	912	261	104	99	102	289
25°	2546	666	76	88	96	1144
35°	2792	1011	47	78	92	1734
45°	2557	729	36	76	94	1953
55°	2251	170	29	73	94	1833
65°	382	10	21	63	88	518
75°	6	6	11	44	68	7
85°	2	3	5	15	24	2
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°	118.2	118.2	118.2	118.2	118.2	118.2	118.2	118.2	118.2	118.2	118.2
2.5°	129.6	129.6	129.6	129.6	129.6	129.6	127.9	123.1	119.8	115.0	113.4
5°	150.6	150.6	150.6	149.0	149.0	145.8	137.7	126.3	118.2	111.7	110.1
7.5°	194.3	192.7	189.5	187.9	183.0	181.4	152.2	129.6	116.6	108.5	106.9
10°	302.9	299.6	294.8	276.9	260.7	249.4	173.3	131.2	113.4	105.3	103.7
12.5°	545.8	539.3	515.0	477.8	432.4	409.7	207.3	132.8	108.5	102.0	102.0
15°	911.8	903.7	858.4	806.5	723.9	678.6	260.7	131.2	103.7	97.2	98.8
17.5°	1316.7	1294.0	1247.1	1179.0	1067.3	1013.8	340.1	127.9	97.2	93.9	97.2
20°	1715.1	1708.6	1630.9	1538.6	1400.9	1329.7	443.8	123.1	90.7	89.1	93.9
22.5°	2181.6	2154.0	2071.4	1972.6	1783.1	1689.2	555.5	116.6	84.2	84.2	90.7
25°	2546.0	2513.6	2448.8	2333.8	2154.0	2053.6	665.6	108.5	76.1	79.4	87.5
27.5°	2750.0	2712.8	2664.2	2565.4	2426.1	2337.0	775.8	98.8	68.0	74.5	84.2
30°	2840.7	2831.0	2795.4	2722.5	2594.5	2515.2	889.1	87.5	59.9	69.6	82.6
32.5°	2850.4	2855.3	2840.7	2793.7	2696.6	2628.6	973.4	77.7	53.4	66.4	79.4
35°	2792.1	2809.9	2819.7	2800.2	2737.1	2682.0	1010.6	66.4	47.0	63.2	77.7
37.5°	2701.4	2733.8	2766.2	2771.1	2732.2	2696.6	1000.9	56.7	43.7	61.5	77.7
40°	2591.3	2620.5	2686.9	2729.0	2716.0	2690.1	953.9	47.0	40.5	58.3	76.1
42.5°	2541.1	2547.6	2618.8	2690.1	2686.9	2665.8	871.3	37.2	37.2	58.3	76.1
45°	2557.3	2528.1	2575.1	2657.7	2652.8	2625.3	728.8	29.2	35.6	56.7	76.1
47.5°	2489.3	2448.8	2528.1	2625.3	2607.5	2567.0	602.5	21.1	34.0	55.1	74.5
50°	2422.9	2416.4	2477.9	2526.5	2502.2	2479.6	437.3	16.2	32.4	53.4	74.5
52.5°	2427.7	2416.4	2422.9	2421.2	2372.7	2348.4	299.6	13.0	30.8	51.8	74.5
55°	2251.2	2215.6	2181.6	2191.3	2194.5	2178.3	170.1	11.3	29.2	51.8	72.9
57.5°	1635.8	1626.0	1663.3	1768.6	1851.2	1860.9	82.6	11.3	27.5	50.2	71.3
60°	1386.3	1379.9	1381.5	1412.3	1456.0	1428.5	34.0	11.3	25.9	48.6	69.6
62.5°	955.5	1018.7	1044.6	1115.9	1086.7	1047.9	13.0	13.0	24.3	45.3	68.0
65°	382.2	380.6	416.2	450.2	440.5	411.4	9.7	11.3	21.1	42.1	63.2
67.5°	89.1	81.0	69.6	59.9	50.2	40.5	9.7	11.3	19.4	38.9	59.9
70°	9.7	9.7	9.7	9.7	9.7	8.1	8.1	11.3	17.8	35.6	55.1
72.5°	8.1	8.1	8.1	8.1	8.1	8.1	8.1	9.7	14.6	30.8	50.2
75°	6.5	6.5	6.5	6.5	6.5	6.5	6.5	8.1	11.3	25.9	43.7
77.5°	4.9	4.9	4.9	6.5	4.9	6.5	6.5	8.1	9.7	21.1	37.2
80°	3.2	3.2	4.9	4.9	4.9	4.9	4.9	6.5	8.1	17.8	29.2
82.5°	3.2	3.2	3.2	3.2	3.2	3.2	4.9	4.9	6.5	13.0	21.1
85°	1.6	1.6	1.6	1.6	1.6	3.2	3.2	4.9	4.9	9.7	14.6
87.5°	1.6	1.6	1.6	1.6	1.6	1.6	3.2	3.2	4.9	4.9	6.5
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°	118.2	118.2
2.5°	111.7	111.7
5°	108.5	106.9
7.5°	105.3	105.3
10°	103.7	103.7
12.5°	102.0	103.7
15°	102.0	102.0
17.5°	98.8	100.4
20°	97.2	98.8
22.5°	95.6	97.2
25°	93.9	95.6
27.5°	92.3	93.9
30°	90.7	93.9
32.5°	89.1	92.3
35°	89.1	92.3
37.5°	89.1	93.9
40°	89.1	93.9
42.5°	89.1	93.9
45°	89.1	93.9
47.5°	89.1	93.9
50°	89.1	95.6
52.5°	89.1	95.6
55°	89.1	93.9
57.5°	87.5	93.9
60°	87.5	92.3
62.5°	85.8	90.7
65°	82.6	87.5
67.5°	79.4	85.8
70°	74.5	81.0
72.5°	69.6	74.5
75°	63.2	68.0
77.5°	55.1	58.3
80°	43.7	48.6
82.5°	34.0	37.2
85°	22.7	24.3
87.5°	9.7	11.3
90°	0.0	0.0

(END OF REPORT)