

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: P1311841

Luminaire Tested: LDSQA3D20R559040D010 3LSQCA45R 1MB

Issue Date: 1/29/2026

**Test Information**

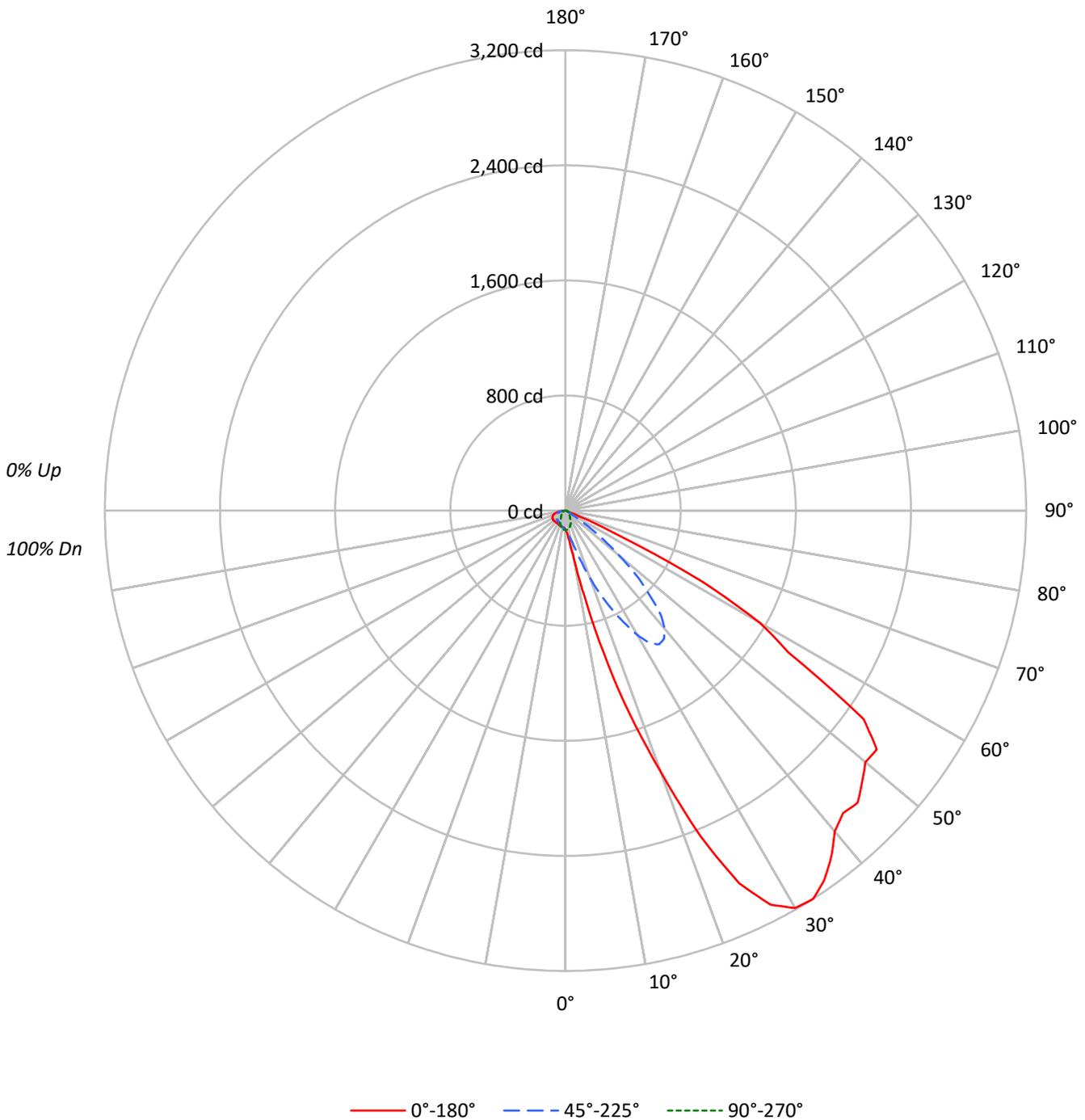
Test Method: LM-79-2019  
Report Number: P1311841  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-80)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D20R559040D010 3LSQCA45R 1MB  
Description: 3in Adjustable LED luminaire with, R55 optic, 4000K CCT AND, 90CRI , 3LSQCA45R 1MB TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2058.0 lumens  
Efficiency: N/A  
Efficacy: 71.5 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): 28.8  
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	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°	22854	22854	22854	22854	22854
5°	29234	26727	22941	21368	20746
10°	59459	34032	22262	20356	20356
15°	182524	52206	20754	19773	20433
20°	352915	91308	18657	19336	20325
25°	543191	142007	16247	18661	20390
30°	634262	198528	13384	18435	20980
35°	659097	238565	11080	18354	21781
40°	654093	240783	10229	19222	23719
45°	699308	199305	9742	20824	25696
50°	728852	131554	9753	22399	28749
55°	758910	57320	9819	24561	31678
60°	536129	13158	10023	26936	35685
65°	174864	4442	9617	28893	40018
70°	5489	4582	10071	31119	45772
75°	4858	4858	8451	32672	50838
80°	3570	5455	9025	32432	54152
85°	3557	7114	10868	32407	53946

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 52.5°  
 Luminance: 771119 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	14.1	0.7
10°-20°	87.4	4.2
20°-30°	292.9	14.2
30°-40°	481.1	23.4
40°-50°	536.5	26.1
50°-60°	451.6	21.9
60°-70°	153.2	7.4
70°-80°	30.0	1.5
80°-90°	11.2	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°	394.4	19.2
0°-40°	875.4	42.5
0°-60°	1863.6	90.6
0°-90°	2058.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2058.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	133	133	133	133	133	
5°	169	155	133	124	120	21
15°	1024	293	116	111	115	325
25°	2858	747	86	98	107	1285
35°	3135	1135	53	87	104	1946
45°	2871	818	40	86	106	2193
55°	2528	191	33	82	106	2058
65°	429	11	24	71	98	581
75°	7	7	13	49	76	8
85°	2	4	6	16	27	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°	132.7	132.7	132.7	132.7	132.7	132.7	132.7	132.7	132.7	132.7	132.7
2.5°	145.5	145.5	145.5	145.5	145.5	145.5	143.7	138.2	134.6	129.1	127.3
5°	169.1	169.1	169.1	167.3	167.3	163.7	154.6	141.8	132.7	125.5	123.6
7.5°	218.2	216.4	212.7	210.9	205.5	203.7	170.9	145.5	130.9	121.8	120.0
10°	340.0	336.4	330.9	310.9	292.8	280.0	194.6	147.3	127.3	118.2	116.4
12.5°	612.8	605.5	578.2	536.4	485.5	460.0	232.8	149.1	121.8	114.6	114.6
15°	1023.7	1014.6	963.7	905.5	812.8	761.9	292.8	147.3	116.4	109.1	110.9
17.5°	1478.3	1452.9	1400.1	1323.8	1198.3	1138.3	381.9	143.7	109.1	105.5	109.1
20°	1925.6	1918.4	1831.1	1727.4	1572.9	1492.9	498.2	138.2	101.8	100.0	105.5
22.5°	2449.3	2418.4	2325.7	2214.8	2002.0	1896.6	623.7	130.9	94.6	94.6	101.8
25°	2858.5	2822.1	2749.4	2620.3	2418.4	2305.7	747.3	121.8	85.5	89.1	98.2
27.5°	3087.6	3045.8	2991.2	2880.3	2723.9	2623.9	871.0	110.9	76.4	83.6	94.6
30°	3189.4	3178.5	3138.5	3056.7	2913.0	2823.9	998.3	98.2	67.3	78.2	92.7
32.5°	3200.3	3205.8	3189.4	3136.7	3027.6	2951.2	1092.8	87.3	60.0	74.6	89.1
35°	3134.9	3154.9	3165.8	3144.0	3073.0	3011.2	1134.7	74.6	52.7	70.9	87.3
37.5°	3033.0	3069.4	3105.8	3111.2	3067.6	3027.6	1123.8	63.6	49.1	69.1	87.3
40°	2909.4	2942.1	3016.7	3063.9	3049.4	3020.3	1071.0	52.7	45.5	65.5	85.5
42.5°	2853.0	2860.3	2940.3	3020.3	3016.7	2993.0	978.3	41.8	41.8	65.5	85.5
45°	2871.2	2838.5	2891.2	2983.9	2978.5	2947.6	818.3	32.7	40.0	63.6	85.5
47.5°	2794.8	2749.4	2838.5	2947.6	2927.6	2882.1	676.4	23.6	38.2	61.8	83.6
50°	2720.3	2713.0	2782.1	2836.7	2809.4	2783.9	491.0	18.2	36.4	60.0	83.6
52.5°	2725.7	2713.0	2720.3	2718.5	2663.9	2636.6	336.4	14.5	34.5	58.2	83.6
55°	2527.5	2487.5	2449.3	2460.2	2463.9	2445.7	190.9	12.7	32.7	58.2	81.8
57.5°	1836.5	1825.6	1867.5	1985.7	2078.4	2089.3	92.7	12.7	30.9	56.4	80.0
60°	1556.5	1549.2	1551.1	1585.6	1634.7	1603.8	38.2	12.7	29.1	54.6	78.2
62.5°	1072.8	1143.8	1172.8	1252.9	1220.1	1176.5	14.5	14.5	27.3	50.9	76.4
65°	429.1	427.3	467.3	505.5	494.6	461.9	10.9	12.7	23.6	47.3	70.9
67.5°	100.0	90.9	78.2	67.3	56.4	45.5	10.9	12.7	21.8	43.6	67.3
70°	10.9	10.9	10.9	10.9	10.9	9.1	9.1	12.7	20.0	40.0	61.8
72.5°	9.1	9.1	9.1	9.1	9.1	9.1	9.1	10.9	16.4	34.5	56.4
75°	7.3	7.3	7.3	7.3	7.3	7.3	7.3	9.1	12.7	29.1	49.1
77.5°	5.5	5.5	5.5	7.3	5.5	7.3	7.3	9.1	10.9	23.6	41.8
80°	3.6	3.6	5.5	5.5	5.5	5.5	5.5	7.3	9.1	20.0	32.7
82.5°	3.6	3.6	3.6	3.6	3.6	3.6	5.5	5.5	7.3	14.5	23.6
85°	1.8	1.8	1.8	1.8	1.8	3.6	3.6	5.5	5.5	10.9	16.4
87.5°	1.8	1.8	1.8	1.8	1.8	1.8	3.6	3.6	5.5	5.5	7.3
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°	132.7	132.7
2.5°	125.5	125.5
5°	121.8	120.0
7.5°	118.2	118.2
10°	116.4	116.4
12.5°	114.6	116.4
15°	114.6	114.6
17.5°	110.9	112.7
20°	109.1	110.9
22.5°	107.3	109.1
25°	105.5	107.3
27.5°	103.6	105.5
30°	101.8	105.5
32.5°	100.0	103.6
35°	100.0	103.6
37.5°	100.0	105.5
40°	100.0	105.5
42.5°	100.0	105.5
45°	100.0	105.5
47.5°	100.0	105.5
50°	100.0	107.3
52.5°	100.0	107.3
55°	100.0	105.5
57.5°	98.2	105.5
60°	98.2	103.6
62.5°	96.4	101.8
65°	92.7	98.2
67.5°	89.1	96.4
70°	83.6	90.9
72.5°	78.2	83.6
75°	70.9	76.4
77.5°	61.8	65.5
80°	49.1	54.6
82.5°	38.2	41.8
85°	25.5	27.3
87.5°	10.9	12.7
90°	0.0	0.0

(END OF REPORT)