

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: P1307515

Luminaire Tested: LDSQA3D20R559024D010 3LSQCA45R 1MB

Issue Date: 1/29/2026

**Test Information**

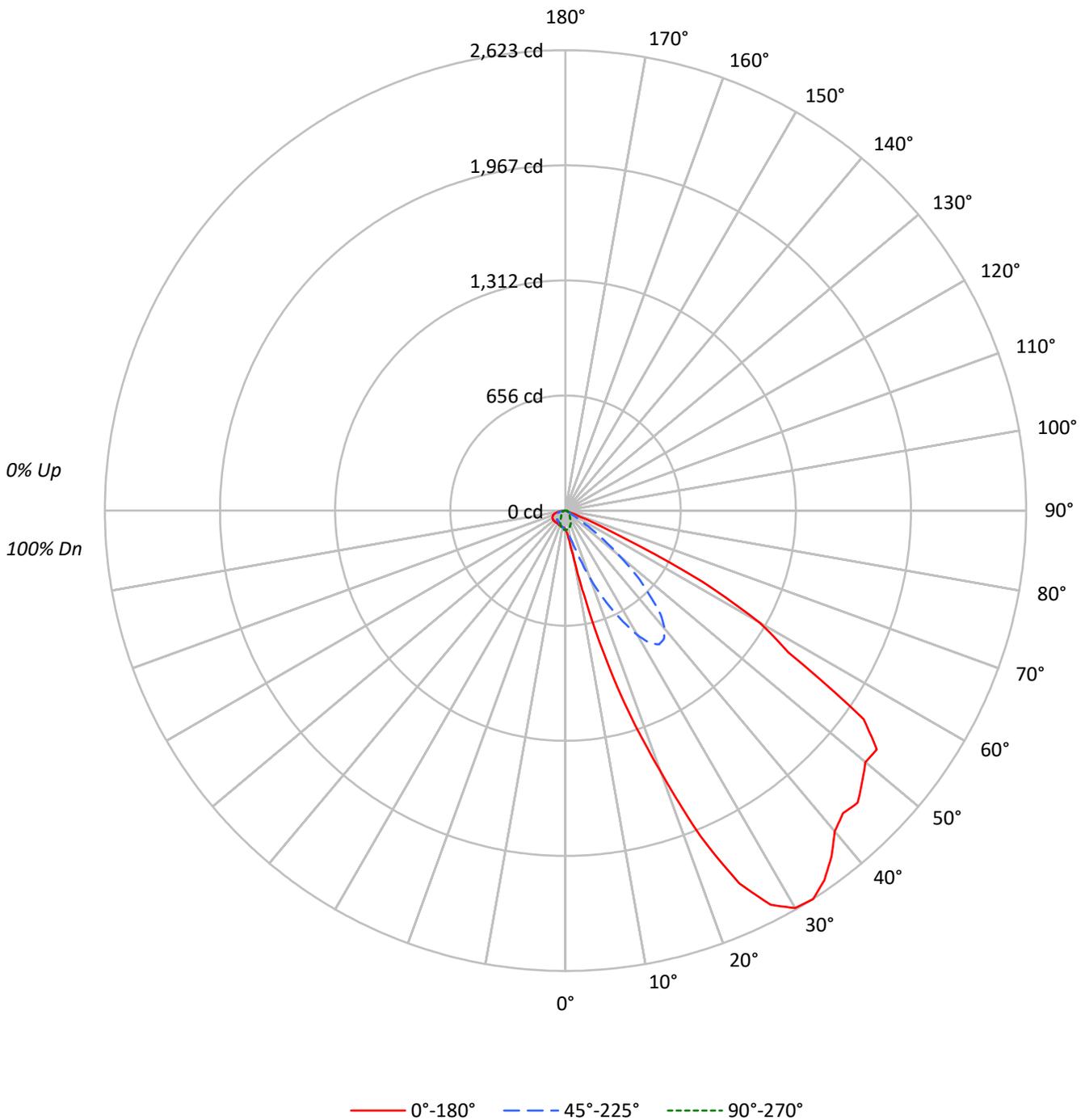
Test Method: LM-79-2019  
Report Number: P1307515  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-80)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D20R559024D010 3LSQCA45R 1MB  
Description: 3in Adjustable LED luminaire with, R55 optic, 2400K CCT AND, 90CRI , 3LSQCA45R 1MB TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1687.0 lumens  
Efficiency: N/A  
Efficacy: 58.6 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	100				
1	110	106	102	99	107	104	100	97	99	97	94	95	93	91	92	90	88	86				
2	100	93	86	81	98	91	85	80	87	83	78	84	80	77	81	78	75	73				
3	91	81	73	67	89	80	72	67	77	71	65	74	69	64	72	67	63	61				
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54	51				
5	76	63	54	47	74	62	53	47	60	52	47	58	51	46	56	50	46	43				
6	69	56	47	40	68	55	46	40	53	46	40	51	45	39	50	44	39	37				
7	64	50	41	35	62	49	41	35	48	40	34	46	39	34	45	38	34	32				
8	59	45	36	30	57	44	36	30	43	35	30	41	35	29	40	34	29	27				
9	54	40	32	26	53	40	32	26	39	31	26	38	31	26	36	30	26	24				
10	50	37	28	23	49	36	28	23	35	28	23	34	27	23	33	27	23	21				

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

	0°	45°	90°	135°	180°
0°	18738	18738	18738	18738	18738
5°	23961	21904	18809	17530	17011
10°	48739	27893	18240	16683	16683
15°	149628	42792	17010	16207	16742
20°	289300	74850	15304	15853	16660
25°	445270	116410	13321	15297	16703
30°	519934	162732	10977	15114	17202
35°	540267	195549	9083	15033	17871
40°	536175	197370	8386	15760	19447
45°	573242	163380	7989	17074	21068
50°	597459	107842	7984	18380	23551
55°	622111	46991	8047	20148	25973
60°	439478	10781	8198	22079	29278
65°	143363	3627	7906	23677	32805
70°	4482	3777	8258	25530	37514
75°	3993	3993	6920	26750	41655
80°	2975	4463	7438	26580	44333
85°	2964	5928	8892	26479	44263

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 52.5°  
 Luminance: 632127 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	11.5	0.7
10°-20°	71.6	4.2
20°-30°	240.1	14.2
30°-40°	394.3	23.4
40°-50°	439.8	26.1
50°-60°	370.2	21.9
60°-70°	125.6	7.4
70°-80°	24.6	1.5
80°-90°	9.2	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°	323.3	19.2
0°-40°	717.6	42.5
0°-60°	1527.6	90.6
0°-90°	1687.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1687.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	109	109	109	109	109	
5°	139	127	109	101	98	17
15°	839	240	95	91	94	266
25°	2343	613	70	80	88	1053
35°	2570	930	43	72	85	1596
45°	2354	671	33	70	86	1797
55°	2072	156	27	67	86	1687
65°	352	9	19	58	80	476
75°	6	6	10	40	63	6
85°	2	3	4	13	22	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°	108.8	108.8	108.8	108.8	108.8	108.8	108.8	108.8	108.8	108.8	108.8
2.5°	119.2	119.2	119.2	119.2	119.2	119.2	117.8	113.3	110.3	105.8	104.3
5°	138.6	138.6	138.6	137.1	137.1	134.2	126.7	116.3	108.8	102.8	101.4
7.5°	178.9	177.4	174.4	172.9	168.4	166.9	140.1	119.2	107.3	99.9	98.4
10°	278.7	275.8	271.3	254.9	240.0	229.5	159.5	120.7	104.3	96.9	95.4
12.5°	502.3	496.4	474.0	439.7	398.0	377.1	190.8	122.2	99.9	93.9	93.9
15°	839.2	831.7	790.0	742.3	666.3	624.5	240.0	120.7	95.4	89.4	90.9
17.5°	1211.8	1191.0	1147.7	1085.1	982.3	933.1	313.0	117.8	89.4	86.5	89.4
20°	1578.5	1572.5	1501.0	1416.0	1289.3	1223.8	408.4	113.3	83.5	82.0	86.5
22.5°	2007.8	1982.5	1906.4	1815.5	1641.1	1554.7	511.3	107.3	77.5	77.5	83.5
25°	2343.2	2313.4	2253.7	2147.9	1982.5	1890.0	612.6	99.9	70.1	73.0	80.5
27.5°	2531.0	2496.7	2452.0	2361.1	2232.9	2150.9	714.0	90.9	62.6	68.6	77.5
30°	2614.5	2605.5	2572.7	2505.6	2387.9	2314.8	818.3	80.5	55.2	64.1	76.0
32.5°	2623.4	2627.9	2614.5	2571.2	2481.8	2419.2	895.8	71.5	49.2	61.1	73.0
35°	2569.7	2586.1	2595.1	2577.2	2519.1	2468.4	930.1	61.1	43.2	58.1	71.5
37.5°	2486.3	2516.1	2545.9	2550.4	2514.6	2481.8	921.2	52.2	40.2	56.6	71.5
40°	2384.9	2411.7	2472.8	2511.6	2499.7	2475.8	877.9	43.2	37.3	53.7	70.1
42.5°	2338.7	2344.7	2410.2	2475.8	2472.8	2453.5	801.9	34.3	34.3	53.7	70.1
45°	2353.6	2326.8	2370.0	2446.0	2441.5	2416.2	670.8	26.8	32.8	52.2	70.1
47.5°	2291.0	2253.7	2326.8	2416.2	2399.8	2362.5	554.5	19.4	31.3	50.7	68.6
50°	2229.9	2223.9	2280.6	2325.3	2302.9	2282.1	402.5	14.9	29.8	49.2	68.6
52.5°	2234.4	2223.9	2229.9	2228.4	2183.7	2161.3	275.8	11.9	28.3	47.7	68.6
55°	2071.9	2039.1	2007.8	2016.7	2019.7	2004.8	156.5	10.4	26.8	47.7	67.1
57.5°	1505.5	1496.5	1530.8	1627.7	1703.7	1712.7	76.0	10.4	25.3	46.2	65.6
60°	1275.9	1270.0	1271.5	1299.8	1340.0	1314.7	31.3	10.4	23.8	44.7	64.1
62.5°	879.4	937.6	961.4	1027.0	1000.2	964.4	11.9	11.9	22.4	41.7	62.6
65°	351.8	350.3	383.1	414.4	405.4	378.6	8.9	10.4	19.4	38.8	58.1
67.5°	82.0	74.5	64.1	55.2	46.2	37.3	8.9	10.4	17.9	35.8	55.2
70°	8.9	8.9	8.9	8.9	8.9	7.5	7.5	10.4	16.4	32.8	50.7
72.5°	7.5	7.5	7.5	7.5	7.5	7.5	7.5	8.9	13.4	28.3	46.2
75°	6.0	6.0	6.0	6.0	6.0	6.0	6.0	7.5	10.4	23.8	40.2
77.5°	4.5	4.5	4.5	6.0	4.5	6.0	6.0	7.5	8.9	19.4	34.3
80°	3.0	3.0	4.5	4.5	4.5	4.5	4.5	6.0	7.5	16.4	26.8
82.5°	3.0	3.0	3.0	3.0	3.0	3.0	4.5	4.5	6.0	11.9	19.4
85°	1.5	1.5	1.5	1.5	1.5	3.0	3.0	4.5	4.5	8.9	13.4
87.5°	1.5	1.5	1.5	1.5	1.5	1.5	3.0	3.0	4.5	4.5	6.0
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°	108.8	108.8
2.5°	102.8	102.8
5°	99.9	98.4
7.5°	96.9	96.9
10°	95.4	95.4
12.5°	93.9	95.4
15°	93.9	93.9
17.5°	90.9	92.4
20°	89.4	90.9
22.5°	87.9	89.4
25°	86.5	87.9
27.5°	85.0	86.5
30°	83.5	86.5
32.5°	82.0	85.0
35°	82.0	85.0
37.5°	82.0	86.5
40°	82.0	86.5
42.5°	82.0	86.5
45°	82.0	86.5
47.5°	82.0	86.5
50°	82.0	87.9
52.5°	82.0	87.9
55°	82.0	86.5
57.5°	80.5	86.5
60°	80.5	85.0
62.5°	79.0	83.5
65°	76.0	80.5
67.5°	73.0	79.0
70°	68.6	74.5
72.5°	64.1	68.6
75°	58.1	62.6
77.5°	50.7	53.7
80°	40.2	44.7
82.5°	31.3	34.3
85°	20.9	22.4
87.5°	8.9	10.4
90°	0.0	0.0

(END OF REPORT)