

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: P1311858

Luminaire Tested: LDSQA3D20R659040D010 3LSQCA45R 1MMS

Issue Date: 1/29/2026

**Test Information**

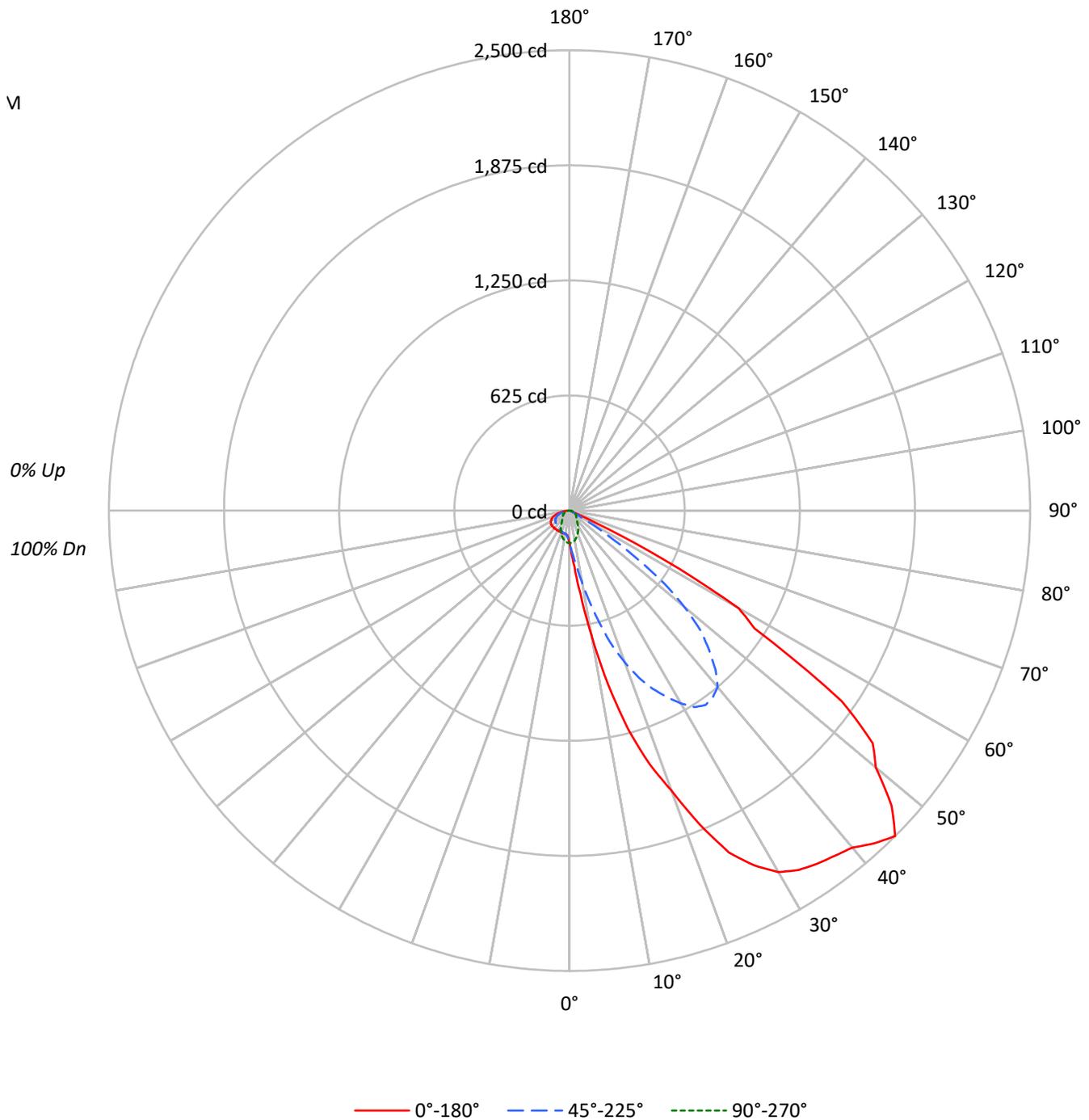
Test Method: LM-79-2019  
Report Number: P1311858  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-82)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D20R659040D010 3LSQCA45R 1MMS  
Description: 3in Adjustable LED luminaire with, R65 optic, 4000K CCT AND, 90CRI , 3LSQCA45R 1MMS TRII  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1813.0 lumens  
Efficiency: N/A  
Efficacy: 63.0 lumens/watt  
Spacing Criteria (0/90/45): 3.28 / 0.89 / 2.04  
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	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	108	104	100	97	100	97	94	96	94	91	92	90	89	87
2	101	93	87	82	98	92	86	81	88	83	79	85	81	77	82	79	76	74
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	62
4	84	73	64	58	82	71	63	57	69	62	57	67	61	56	64	59	55	53
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	57	49	42	69	57	48	42	55	47	42	53	46	41	51	46	41	39
7	65	52	43	37	63	51	42	36	49	42	36	48	41	36	46	40	36	34
8	60	46	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31	29
9	56	42	34	28	54	41	33	28	40	33	28	39	33	28	38	32	28	26
10	52	38	30	25	50	38	30	25	37	30	25	36	29	25	35	29	24	23

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

	0°	45°	90°	135°	180°
0°	30363	30363	30363	30363	30363
5°	53109	43376	29856	24203	23252
10°	120160	69934	28610	22245	22577
15°	218451	112470	26584	22359	23018
20°	296192	160586	23991	22323	23313
25°	389308	202777	21074	21758	23829
30°	450788	240409	18077	21696	24938
35°	492268	270964	15285	22160	26365
40°	537007	281183	13489	23291	28193
45°	608777	260779	12836	24794	30542
50°	581544	217721	12673	26311	33599
55°	542001	122266	13091	28375	37112
60°	365043	26281	13158	30070	40059
65°	56318	6683	12592	31093	43726
70°	6395	6395	11884	32025	46679
75°	6055	6055	10913	31474	47178
80°	5455	7240	10811	28861	46912
85°	3557	7114	10868	28652	43078

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 608777 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	21.4	1.2
10°-20°	115.3	6.4
20°-30°	270.9	14.9
30°-40°	409.2	22.6
40°-50°	470.4	25.9
50°-60°	373.4	20.6
60°-70°	111.9	6.2
70°-80°	30.4	1.7
80°-90°	10.2	0.6
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°	407.5	22.5
0°-40°	816.7	45.0
0°-60°	1660.5	91.6
0°-90°	1813.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1813.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	176	176	176	176	176	
5°	307	251	173	140	134	41
15°	1225	631	149	125	129	353
25°	2049	1067	111	114	125	935
35°	2341	1289	73	105	125	1469
45°	2500	1071	53	102	125	1857
55°	1805	407	44	94	124	1487
65°	138	16	31	76	107	310
75°	9	9	16	47	71	10
85°	2	4	6	14	22	3
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°	176.3	176.3	176.3	176.3	176.3	176.3	176.3	176.3	176.3	176.3	176.3
2.5°	223.6	225.4	223.6	223.6	221.8	220.0	207.2	192.7	176.3	163.6	154.5
5°	307.2	309.0	303.6	303.6	299.9	294.5	250.9	209.1	172.7	152.7	140.0
7.5°	454.5	461.7	452.6	441.7	421.7	418.1	312.7	225.4	169.1	141.8	130.9
10°	687.1	681.7	672.6	650.8	616.2	599.9	399.9	241.8	163.6	134.5	127.2
12.5°	968.9	954.4	943.5	903.5	856.2	828.9	509.0	256.3	156.3	127.2	125.4
15°	1225.2	1214.3	1188.9	1150.7	1092.5	1070.7	630.8	265.4	149.1	121.8	125.4
17.5°	1441.5	1430.6	1416.1	1377.9	1317.9	1285.2	767.1	270.9	140.0	118.2	123.6
20°	1616.1	1608.8	1588.8	1557.9	1497.9	1467.0	876.2	270.9	130.9	114.5	121.8
22.5°	1841.5	1825.1	1799.7	1754.2	1679.7	1632.4	979.8	265.4	121.8	110.9	118.2
25°	2048.7	2037.8	2005.1	1950.5	1870.5	1823.3	1067.1	254.5	110.9	105.4	114.5
27.5°	2172.3	2165.0	2134.1	2077.8	1988.7	1952.4	1139.8	238.1	100.0	100.0	112.7
30°	2266.8	2252.3	2221.4	2166.9	2076.0	2032.3	1208.9	218.1	90.9	94.5	109.1
32.5°	2314.1	2308.6	2281.4	2234.1	2145.0	2096.0	1265.2	192.7	80.0	90.9	107.3
35°	2341.4	2335.9	2314.1	2268.7	2185.0	2137.8	1288.8	169.1	72.7	87.3	105.4
37.5°	2363.2	2357.7	2330.5	2285.0	2201.4	2152.3	1277.9	143.6	65.4	83.6	103.6
40°	2388.6	2368.6	2326.8	2281.4	2205.0	2157.8	1250.7	120.0	60.0	81.8	103.6
42.5°	2450.4	2381.4	2315.9	2274.1	2201.4	2146.9	1172.5	94.5	54.5	78.2	101.8
45°	2499.5	2377.7	2294.1	2261.4	2186.9	2125.0	1070.7	69.1	52.7	76.3	101.8
47.5°	2370.5	2295.9	2257.7	2239.6	2159.6	2092.3	965.3	47.3	50.9	74.5	100.0
50°	2170.5	2161.4	2146.9	2148.7	2076.0	2021.4	812.6	32.7	47.3	72.7	98.2
52.5°	2074.1	2063.2	2037.8	2019.6	1946.9	1899.6	643.5	25.4	45.4	70.9	96.3
55°	1805.1	1812.4	1785.1	1796.0	1774.2	1750.6	407.2	23.6	43.6	67.3	94.5
57.5°	1188.9	1225.2	1288.8	1365.2	1434.3	1481.5	220.0	23.6	40.0	65.4	90.9
60°	1059.8	1050.7	1048.9	1063.4	1094.3	1119.8	76.3	21.8	38.2	60.0	87.3
62.5°	579.9	576.3	630.8	723.5	778.0	783.5	21.8	21.8	34.5	56.4	81.8
65°	138.2	143.6	160.0	200.0	236.3	259.9	16.4	20.0	30.9	52.7	76.3
67.5°	21.8	23.6	23.6	29.1	32.7	32.7	14.5	18.2	27.3	47.3	70.9
70°	12.7	12.7	12.7	12.7	12.7	12.7	12.7	16.4	23.6	41.8	63.6
72.5°	10.9	10.9	10.9	10.9	10.9	10.9	12.7	14.5	20.0	36.4	54.5
75°	9.1	9.1	9.1	9.1	9.1	9.1	9.1	12.7	16.4	29.1	47.3
77.5°	7.3	7.3	7.3	7.3	7.3	7.3	9.1	10.9	14.5	23.6	38.2
80°	5.5	5.5	5.5	5.5	5.5	5.5	7.3	9.1	10.9	18.2	29.1
82.5°	3.6	3.6	3.6	3.6	3.6	3.6	5.5	7.3	9.1	14.5	21.8
85°	1.8	1.8	1.8	1.8	3.6	3.6	3.6	5.5	5.5	9.1	14.5
87.5°	1.8	1.8	1.8	1.8	1.8	1.8	3.6	3.6	3.6	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°	176.3	176.3
2.5°	149.1	147.2
5°	134.5	134.5
7.5°	129.1	129.1
10°	127.2	129.1
12.5°	127.2	129.1
15°	127.2	129.1
17.5°	127.2	129.1
20°	125.4	127.2
22.5°	123.6	125.4
25°	121.8	125.4
27.5°	120.0	125.4
30°	120.0	125.4
32.5°	120.0	125.4
35°	118.2	125.4
37.5°	118.2	125.4
40°	118.2	125.4
42.5°	118.2	125.4
45°	118.2	125.4
47.5°	118.2	125.4
50°	118.2	125.4
52.5°	116.3	125.4
55°	116.3	123.6
57.5°	112.7	120.0
60°	109.1	116.3
62.5°	105.4	112.7
65°	100.0	107.3
67.5°	94.5	100.0
70°	85.4	92.7
72.5°	76.3	81.8
75°	65.4	70.9
77.5°	54.5	60.0
80°	43.6	47.3
82.5°	30.9	34.5
85°	20.0	21.8
87.5°	9.1	9.1
90°	0.0	0.0

(END OF REPORT)