

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: P1313074

Luminaire Tested: LDSQA3D24R609050D010 3LSQCA45R 1MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1313074
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-81)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D24R609050D010 3LSQCA45R 1MMS
Description: 3in Adjustable LED luminaire with, R60 optic, 5000K CCT AND, 90CRI , 3LSQCA45R 1MMS TRII
Light Source: -
Ballast/Driver: -

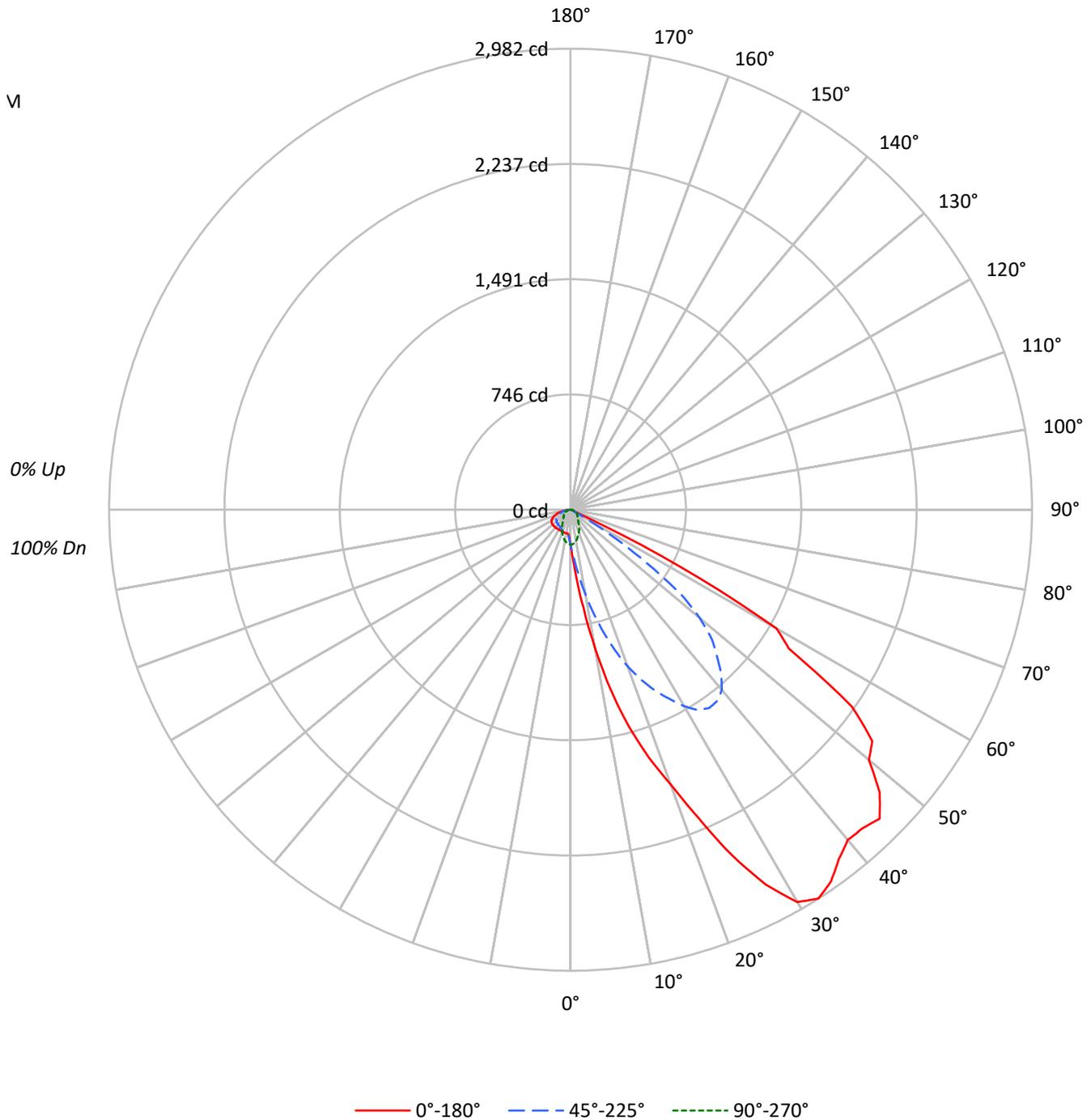
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2270.0 lumens
Efficiency: N/A
Efficacy: 78.8 lumens/watt
Spacing Criteria (0/90/45): 3.38 / 0.84 / 2.07
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	108	104	100	97	100	97	94	96	93	91	92	90	89	87				
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	79	76	74				
3	92	82	74	68	90	81	73	68	78	72	67	75	70	65	72	68	64	62				
4	84	72	64	58	82	71	63	57	69	62	56	66	60	56	64	59	55	53				
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45				
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	39				
7	65	51	42	36	63	50	42	36	49	41	36	47	41	36	46	40	35	33				
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29				
9	55	42	33	28	54	41	33	28	40	33	28	39	32	27	38	32	27	25				
10	52	38	30	25	50	38	30	25	37	29	24	36	29	24	35	29	24	22				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	38733	38733	38733	38733	38733
5°	76344	59575	38172	28888	27471
10°	157689	97076	35728	26337	26704
15°	257908	145687	32004	26495	27226
20°	346042	197406	28738	26465	27601
25°	468188	245077	25103	26281	28618
30°	582696	291756	20921	26270	29949
35°	616901	328844	17787	26890	31242
40°	626733	341907	16232	27833	33858
45°	688031	325664	15588	29641	36680
50°	674489	291911	15486	31509	40350
55°	666670	179046	15493	34080	44619
60°	528792	42642	16361	36236	48326
65°	33620	7580	15975	37002	52121
70°	7251	8308	15610	38421	55088
75°	6854	8251	13708	37064	56294
80°	6149	8232	14282	36795	53160
85°	4150	8102	16401	32605	52958

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 15°
 Vertical Angle: 52.5°
 Luminance: 726193 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	28.1	1.2
10°-20°	141.5	6.2
20°-30°	328.3	14.5
30°-40°	510.2	22.5
40°-50°	581.4	25.6
50°-60°	489.7	21.6
60°-70°	142.1	6.3
70°-80°	36.4	1.6
80°-90°	12.3	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°	497.8	21.9
0°-40°	1008.1	44.4
0°-60°	2079.2	91.6
0°-90°	2270.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2270.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	225	225	225	225	225	
5°	442	345	221	167	159	57
15°	1446	817	180	149	153	419
25°	2464	1290	132	138	151	1144
35°	2934	1564	85	128	149	1823
45°	2825	1337	64	122	151	2124
55°	2220	596	52	114	149	1868
65°	82	19	39	91	128	408
75°	10	12	21	56	85	11
85°	2	4	8	16	27	3
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
0°	224.9	224.9	224.9	224.9	224.9	224.9	224.9	224.9	224.9	224.9	224.9
2.5°	303.3	301.3	301.3	299.2	297.1	295.1	288.9	286.8	274.4	249.7	224.9
5°	441.6	439.5	433.3	431.3	420.9	406.5	392.1	377.6	344.6	274.4	220.8
7.5°	639.7	643.8	639.7	617.0	602.5	579.8	536.5	505.5	439.5	299.2	212.5
10°	901.7	901.7	895.5	860.5	829.5	786.2	730.5	676.8	555.1	321.9	204.3
12.5°	1186.5	1192.7	1161.7	1132.8	1077.1	1023.5	947.1	866.7	687.1	340.5	194.0
15°	1446.5	1442.4	1411.4	1374.3	1316.5	1242.2	1161.7	1058.6	817.1	352.9	179.5
17.5°	1677.6	1669.3	1642.5	1601.2	1531.1	1448.5	1345.4	1233.9	951.3	363.2	169.2
20°	1888.1	1859.2	1828.2	1784.9	1716.8	1630.1	1522.8	1397.0	1077.1	363.2	156.8
22.5°	2154.3	2125.4	2082.0	2016.0	1925.2	1817.9	1692.0	1549.7	1188.6	354.9	144.4
25°	2463.8	2441.1	2366.8	2282.2	2164.6	2036.6	1890.1	1698.2	1289.7	342.5	132.1
27.5°	2734.1	2709.3	2635.0	2511.2	2368.9	2216.2	2061.4	1865.4	1378.4	319.8	117.6
30°	2930.1	2899.2	2841.4	2723.8	2550.4	2364.7	2181.1	1993.3	1467.1	293.0	105.2
32.5°	2981.7	2977.6	2934.2	2847.6	2692.8	2488.5	2269.8	2065.5	1537.3	257.9	94.9
35°	2934.2	2940.4	2932.2	2888.8	2775.4	2575.2	2327.6	2104.7	1564.1	222.9	84.6
37.5°	2847.6	2855.8	2870.3	2876.5	2804.2	2626.8	2360.6	2121.2	1557.9	187.8	78.4
40°	2787.7	2783.6	2783.6	2824.9	2810.4	2649.5	2364.7	2108.9	1520.8	150.6	72.2
42.5°	2793.9	2748.5	2717.6	2783.6	2804.2	2639.2	2337.9	2075.8	1440.3	115.6	66.0
45°	2824.9	2727.9	2674.2	2758.8	2791.9	2604.1	2288.4	2026.3	1337.1	80.5	64.0
47.5°	2709.3	2645.4	2637.1	2756.8	2769.2	2544.2	2212.0	1947.9	1238.1	55.7	59.8
50°	2517.4	2507.1	2550.4	2674.2	2676.3	2445.2	2125.4	1805.5	1089.5	39.2	57.8
52.5°	2457.6	2463.8	2503.0	2566.9	2507.1	2278.1	1968.5	1685.8	901.7	31.0	55.7
55°	2220.3	2230.6	2267.7	2306.9	2263.6	2073.8	1778.7	1541.4	596.3	28.9	51.6
57.5°	1671.4	1698.2	1766.3	1801.4	1805.5	1690.0	1611.6	1328.9	336.3	28.9	49.5
60°	1535.2	1500.1	1469.2	1397.0	1330.9	1316.5	1324.7	996.7	123.8	26.8	47.5
62.5°	802.7	786.2	833.6	864.6	872.8	918.2	858.4	526.2	26.8	26.8	43.3
65°	82.5	82.5	101.1	134.1	222.9	297.1	282.7	152.7	18.6	24.8	39.2
67.5°	24.8	24.8	24.8	28.9	37.1	37.1	31.0	22.7	18.6	22.7	35.1
70°	14.4	14.4	14.4	14.4	14.4	14.4	16.5	14.4	16.5	20.6	31.0
72.5°	12.4	12.4	12.4	12.4	14.4	14.4	14.4	14.4	14.4	18.6	26.8
75°	10.3	10.3	10.3	10.3	10.3	10.3	10.3	12.4	12.4	14.4	20.6
77.5°	8.3	8.3	8.3	8.3	8.3	8.3	10.3	10.3	10.3	12.4	16.5
80°	6.2	6.2	6.2	6.2	6.2	8.3	8.3	8.3	8.3	10.3	14.4
82.5°	4.1	4.1	4.1	4.1	6.2	6.2	6.2	6.2	6.2	8.3	10.3
85°	2.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	6.2	8.3
87.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	4.1	4.1	6.2
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):

	112.5°	135°	157.5°	180°
0°	224.9	224.9	224.9	224.9
2.5°	204.3	189.8	181.6	177.5
5°	185.7	167.1	160.9	158.9
7.5°	169.2	156.8	154.8	154.8
10°	158.9	150.6	152.7	152.7
12.5°	152.7	150.6	152.7	154.8
15°	146.5	148.6	152.7	152.7
17.5°	142.4	146.5	150.6	152.7
20°	136.2	144.4	150.6	150.6
22.5°	132.1	142.4	148.6	150.6
25°	127.9	138.3	146.5	150.6
27.5°	121.7	136.2	146.5	148.6
30°	115.6	132.1	144.4	150.6
32.5°	109.4	130.0	144.4	148.6
35°	105.2	127.9	144.4	148.6
37.5°	101.1	125.9	144.4	150.6
40°	99.0	123.8	142.4	150.6
42.5°	94.9	123.8	142.4	150.6
45°	92.9	121.7	142.4	150.6
47.5°	90.8	119.7	142.4	150.6
50°	86.7	117.6	140.3	150.6
52.5°	84.6	115.6	140.3	150.6
55°	80.5	113.5	138.3	148.6
57.5°	78.4	109.4	136.2	144.4
60°	74.3	105.2	132.1	140.3
62.5°	68.1	99.0	125.9	136.2
65°	61.9	90.8	119.7	127.9
67.5°	55.7	84.6	111.4	119.7
70°	49.5	76.3	101.1	109.4
72.5°	43.3	66.0	90.8	97.0
75°	37.1	55.7	76.3	84.6
77.5°	28.9	45.4	64.0	70.2
80°	22.7	37.1	49.5	53.6
82.5°	18.6	26.8	37.1	39.2
85°	12.4	16.5	22.7	26.8
87.5°	6.2	8.3	10.3	12.4
90°	0.0	0.0	0.0	0.0

(END OF REPORT)