

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: P1316969

Luminaire Tested: LDSQA3D20R659740D010 3LSQCA45R 1MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1316969
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: LDSQA3D20R659740D010 3LSQCA45R 1MMS
Description: 3in Adjustable LED luminaire with, R65 optic, 4000K CCT AND, 97CRI , 3LSQCA45R 1MMS TRII
Light Source: -
Ballast/Driver: -

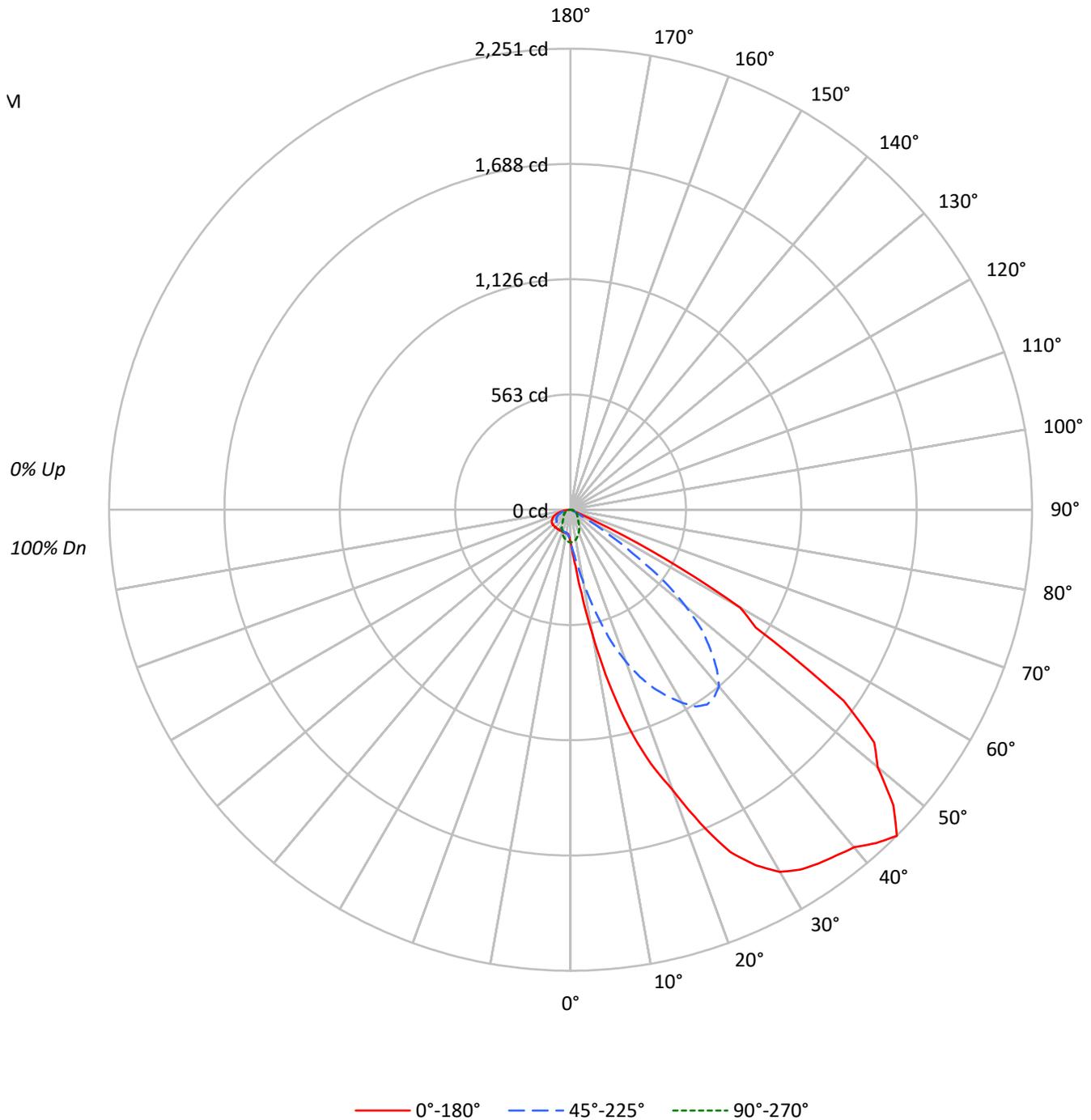
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1633.0 lumens
Efficiency: N/A
Efficacy: 56.7 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	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	108	104	100	97	100	97	94	96	94	91	92	90	89	89	89	89	87	
2	101	93	87	82	98	92	86	81	88	83	79	85	81	77	82	79	76	76	76	76	74	
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	65	65	65	62	
4	84	73	64	58	82	71	63	57	69	62	57	67	61	56	64	59	55	55	55	55	53	
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	47	47	47	45	
6	71	57	49	42	69	57	48	42	55	47	42	53	46	41	51	46	41	41	41	41	39	
7	65	52	43	37	63	51	42	36	49	42	36	48	41	36	46	40	36	36	36	36	34	
8	60	46	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31	31	31	31	29	
9	56	42	34	28	54	41	33	28	40	33	28	39	33	28	38	32	28	28	28	28	26	
10	52	38	30	25	50	38	30	25	37	30	25	36	29	25	35	29	24	24	24	24	23	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	27349	27349	27349	27349	27349
5°	47836	39071	26883	21800	20953
10°	108233	62992	25777	20041	20338
15°	196770	101309	23945	20148	20736
20°	266776	144641	21608	20105	21003
25°	350656	182635	18984	19611	21473
30°	406044	216525	16287	19529	22472
35°	443386	244073	13771	19973	23758
40°	483702	253261	12140	20976	25405
45°	548350	234889	11569	22334	27522
50°	523805	196099	11414	23685	30276
55°	488194	110136	11800	25552	33419
60°	328807	23698	11849	27073	36098
65°	50695	5990	11329	28037	39366
70°	5791	5791	10726	28853	42046
75°	5456	5456	9782	28347	42520
80°	4860	6447	9720	25985	42250
85°	3162	6521	9683	25886	38730

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 548350 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	19.2	1.2
10°-20°	103.8	6.4
20°-30°	244.0	14.9
30°-40°	368.6	22.6
40°-50°	423.7	25.9
50°-60°	336.4	20.6
60°-70°	100.8	6.2
70°-80°	27.4	1.7
80°-90°	9.2	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°	367.0	22.5
0°-40°	735.6	45.0
0°-60°	1495.7	91.6
0°-90°	1633.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1633.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	159	159	159	159	159	
5°	277	226	156	126	121	37
15°	1104	568	134	113	116	318
25°	1845	961	100	103	113	842
35°	2109	1161	66	95	113	1323
45°	2251	964	48	92	113	1672
55°	1626	367	39	85	111	1340
65°	124	15	28	69	97	279
75°	8	8	15	43	64	9
85°	2	3	5	13	20	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°	158.8	158.8	158.8	158.8	158.8	158.8	158.8	158.8	158.8	158.8	158.8
2.5°	201.4	203.0	201.4	201.4	199.8	198.1	186.7	173.6	158.8	147.4	139.2
5°	276.7	278.3	273.4	273.4	270.2	265.3	226.0	188.3	155.5	137.5	126.1
7.5°	409.3	415.9	407.7	397.9	379.9	376.6	281.6	203.0	152.3	127.7	117.9
10°	618.9	614.0	605.8	586.2	555.1	540.3	360.2	217.8	147.4	121.2	114.6
12.5°	872.7	859.6	849.8	813.8	771.2	746.6	458.5	230.9	140.8	114.6	113.0
15°	1103.6	1093.8	1070.8	1036.4	984.0	964.4	568.2	239.1	134.3	109.7	113.0
17.5°	1298.4	1288.6	1275.5	1241.1	1187.1	1157.6	691.0	244.0	126.1	106.4	111.3
20°	1455.6	1449.1	1431.0	1403.2	1349.2	1321.3	789.2	244.0	117.9	103.2	109.7
22.5°	1658.6	1643.9	1621.0	1580.0	1512.9	1470.3	882.5	239.1	109.7	99.9	106.4
25°	1845.3	1835.5	1806.0	1756.9	1684.8	1642.3	961.1	229.2	99.9	95.0	103.2
27.5°	1956.6	1950.1	1922.3	1871.5	1791.3	1758.5	1026.6	214.5	90.1	90.1	101.5
30°	2041.8	2028.7	2000.8	1951.7	1869.9	1830.6	1088.8	196.5	81.9	85.1	98.2
32.5°	2084.3	2079.4	2054.9	2012.3	1932.1	1887.9	1139.6	173.6	72.0	81.9	96.6
35°	2108.9	2104.0	2084.3	2043.4	1968.1	1925.5	1160.9	152.3	65.5	78.6	95.0
37.5°	2128.6	2123.6	2099.1	2058.2	1982.8	1938.6	1151.1	129.4	58.9	75.3	93.3
40°	2151.5	2133.5	2095.8	2054.9	1986.1	1943.5	1126.5	108.1	54.0	73.7	93.3
42.5°	2207.2	2144.9	2086.0	2048.3	1982.8	1933.7	1056.1	85.1	49.1	70.4	91.7
45°	2251.4	2141.7	2066.3	2036.9	1969.7	1914.1	964.4	62.2	47.5	68.8	91.7
47.5°	2135.1	2068.0	2033.6	2017.2	1945.2	1884.6	869.4	42.6	45.8	67.1	90.1
50°	1955.0	1946.8	1933.7	1935.4	1869.9	1820.7	731.9	29.5	42.6	65.5	88.4
52.5°	1868.2	1858.4	1835.5	1819.1	1753.6	1711.0	579.6	22.9	40.9	63.9	86.8
55°	1625.9	1632.4	1607.9	1617.7	1598.1	1576.8	366.8	21.3	39.3	60.6	85.1
57.5°	1070.8	1103.6	1160.9	1229.7	1291.9	1334.4	198.1	21.3	36.0	58.9	81.9
60°	954.6	946.4	944.8	957.9	985.7	1008.6	68.8	19.6	34.4	54.0	78.6
62.5°	522.3	519.0	568.2	651.7	700.8	705.7	19.6	19.6	31.1	50.8	73.7
65°	124.4	129.4	144.1	180.1	212.9	234.1	14.7	18.0	27.8	47.5	68.8
67.5°	19.6	21.3	21.3	26.2	29.5	29.5	13.1	16.4	24.6	42.6	63.9
70°	11.5	11.5	11.5	11.5	11.5	11.5	11.5	14.7	21.3	37.7	57.3
72.5°	9.8	9.8	9.8	9.8	9.8	9.8	11.5	13.1	18.0	32.7	49.1
75°	8.2	8.2	8.2	8.2	8.2	8.2	8.2	11.5	14.7	26.2	42.6
77.5°	6.5	6.5	6.5	6.5	6.5	6.5	8.2	9.8	13.1	21.3	34.4
80°	4.9	4.9	4.9	4.9	4.9	4.9	6.5	8.2	9.8	16.4	26.2
82.5°	3.3	3.3	3.3	3.3	3.3	3.3	4.9	6.5	8.2	13.1	19.6
85°	1.6	1.6	1.6	1.6	3.3	3.3	3.3	4.9	4.9	8.2	13.1
87.5°	1.6	1.6	1.6	1.6	1.6	1.6	3.3	3.3	3.3	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°	158.8	158.8
2.5°	134.3	132.6
5°	121.2	121.2
7.5°	116.3	116.3
10°	114.6	116.3
12.5°	114.6	116.3
15°	114.6	116.3
17.5°	114.6	116.3
20°	113.0	114.6
22.5°	111.3	113.0
25°	109.7	113.0
27.5°	108.1	113.0
30°	108.1	113.0
32.5°	108.1	113.0
35°	106.4	113.0
37.5°	106.4	113.0
40°	106.4	113.0
42.5°	106.4	113.0
45°	106.4	113.0
47.5°	106.4	113.0
50°	106.4	113.0
52.5°	104.8	113.0
55°	104.8	111.3
57.5°	101.5	108.1
60°	98.2	104.8
62.5°	95.0	101.5
65°	90.1	96.6
67.5°	85.1	90.1
70°	77.0	83.5
72.5°	68.8	73.7
75°	58.9	63.9
77.5°	49.1	54.0
80°	39.3	42.6
82.5°	27.8	31.1
85°	18.0	19.6
87.5°	8.2	8.2
90°	0.0	0.0

(END OF REPORT)