

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: P1316462

Luminaire Tested: LDSQA3D09R459740DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1316462
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-69)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D09R459740DE010 3LSQCA30R 1MW
Description: 3in Adjustable LED luminaire with, R45 optic, 4000K CCT AND, 97CRI , 3LSQCA30R 1MW TRIM
Light Source: -
Ballast/Driver: -

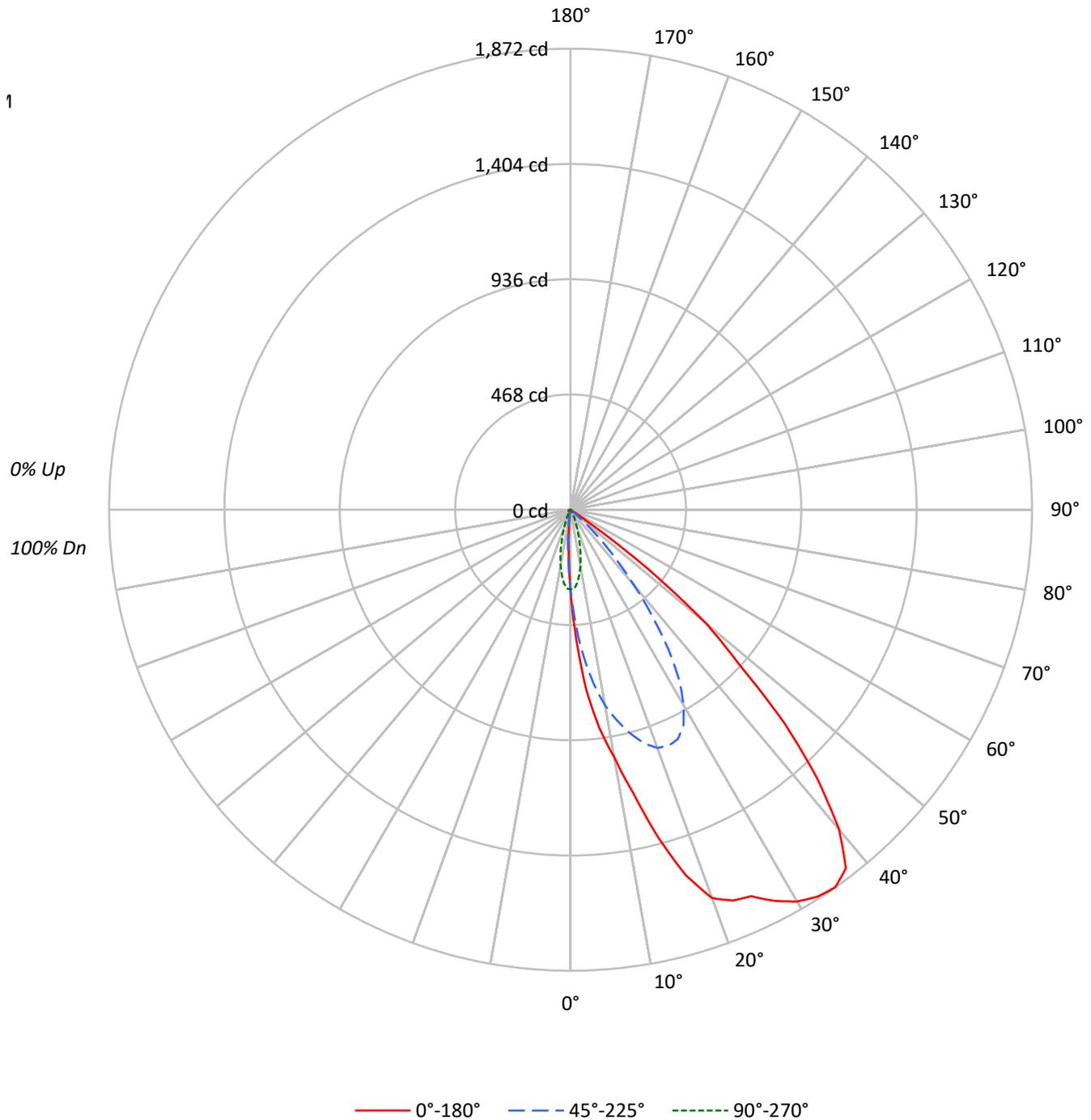
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 848.0 lumens
Efficiency: N/A
Efficacy: 76.4 lumens/watt
Spacing Criteria (0/90/45): 2.13 / 0.47 / 1.22
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 11.1
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

TEST NUMBER: P1316462
CATALOG NUMBER: LDSQA3D09R459740DE010 3LSQCA30R 1MW

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	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91				
2	105	100	95	91	103	98	93	90	95	91	88	91	88	86	89	86	84	82				
3	99	91	85	80	96	89	84	80	87	82	78	84	80	77	82	79	76	74				
4	92	83	76	71	90	82	76	71	80	74	70	77	73	69	76	72	68	67				
5	86	76	69	64	84	75	68	64	73	67	63	71	66	62	70	65	62	60				
6	81	70	63	57	79	69	62	57	67	61	57	66	60	56	64	60	56	54				
7	75	64	57	52	74	63	57	52	62	56	51	61	55	51	60	55	51	49				
8	71	59	52	47	69	59	52	47	57	51	47	56	51	47	55	50	46	45				
9	66	55	48	43	65	54	47	43	53	47	43	52	47	43	51	46	42	41				
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	37				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	55576	55576	55576	55576	55576
5°	126652	102743	51985	20849	14228
10°	178464	141145	40187	4582	2116
15°	245944	167921	25675	1516	1266
20°	307518	188590	13379	1045	1045
25°	329088	195271	6195	817	950
30°	365276	182360	2824	855	994
35°	393474	145384	904	904	1198
40°	380734	90086	472	1124	1439
45°	298994	42501	511	1388	1729
50°	192106	4930	750	1715	2277
55°	29185	420	841	2132	2762
60°	482	482	964	2446	2928
65°	571	571	1141	2608	3464
70°	705	705	1410	2870	3928
75°	466	932	1863	3327	4259
80°	694	1389	2083	3471	4959
85°	0	1383	2766	4150	4150

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 298994 cd/sqm



TEST NUMBER: P1316462

CATALOG NUMBER: LDSQA3D09R459740DE010 3LSQCA30R 1MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	35.3	4.2
10°-20°	127.7	15.1
20°-30°	224.3	26.5
30°-40°	254.7	30.0
40°-50°	164.9	19.4
50°-60°	32.4	3.8
60°-70°	3.9	0.5
70°-80°	3.3	0.4
80°-90°	1.5	0.2
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°	387.3	45.7
0°-40°	642.0	75.7
0°-60°	839.3	99.0
0°-90°	848.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	848.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	323	323	323	323	323	
5°	733	594	301	121	82	78
15°	1379	942	144	8	7	397
25°	1732	1028	33	4	5	812
35°	1872	692	4	4	6	1151
45°	1228	174	2	6	7	925
55°	97	1	3	7	9	185
65°	1	1	3	6	8	1
75°	1	1	3	5	6	1
85°	0	1	1	2	2	0
90°	0	0	0	0	0	



TEST NUMBER: P1316462

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	322.7	322.7	322.7	322.7	322.7	322.7	322.7	322.7	322.7	322.7	322.7
2.5°	524.1	522.7	524.8	510.6	509.9	499.3	496.4	484.4	468.1	460.3	441.8
5°	732.6	725.5	725.5	708.5	702.8	690.8	670.2	644.7	623.4	594.3	563.1
7.5°	893.6	892.2	892.2	877.3	863.1	846.1	818.4	789.3	755.3	710.6	665.2
10°	1020.5	1022.7	1016.3	1002.8	982.2	963.8	931.2	895.7	853.9	807.1	746.8
12.5°	1180.8	1165.2	1160.2	1129.7	1103.5	1068.0	1029.0	988.6	936.8	878.0	809.9
15°	1379.4	1359.5	1339.7	1299.2	1255.3	1200.7	1139.7	1080.1	1013.4	941.8	856.7
17.5°	1556.7	1556.7	1530.4	1466.6	1409.9	1329.0	1246.8	1167.3	1088.6	994.3	887.9
20°	1677.9	1671.6	1651.7	1604.9	1540.4	1448.9	1341.8	1230.4	1135.4	1029.0	905.6
22.5°	1717.7	1716.2	1716.9	1689.3	1637.5	1542.5	1411.3	1280.1	1160.9	1037.5	897.1
25°	1731.8	1734.7	1741.8	1731.1	1692.1	1597.1	1453.8	1303.5	1168.7	1027.6	864.5
27.5°	1790.7	1785.0	1792.8	1785.7	1741.8	1628.3	1462.3	1297.8	1151.7	991.4	806.3
30°	1836.8	1835.4	1848.9	1842.5	1785.0	1648.2	1454.5	1276.5	1109.9	917.0	714.9
32.5°	1863.0	1863.7	1867.3	1841.1	1756.0	1604.9	1416.3	1233.3	1031.2	819.8	595.7
35°	1871.5	1867.3	1847.4	1782.9	1666.6	1504.9	1321.9	1130.4	924.1	691.5	470.9
37.5°	1834.7	1812.7	1761.6	1665.2	1530.4	1379.4	1201.4	1000.7	777.3	546.1	351.0
40°	1693.5	1664.5	1599.9	1501.4	1375.8	1229.7	1047.5	837.6	602.8	400.7	246.8
42.5°	1482.2	1467.3	1399.9	1314.1	1207.7	1060.2	872.3	659.5	446.1	276.6	157.4
45°	1227.6	1208.5	1165.9	1090.0	1006.3	851.7	676.6	472.3	304.2	174.5	78.0
47.5°	920.5	921.9	892.9	835.4	753.2	624.1	463.1	317.0	190.8	90.1	17.7
50°	717.0	707.1	665.9	607.1	511.3	415.6	299.3	200.0	100.7	18.4	1.4
52.5°	397.1	403.5	381.5	362.4	312.8	248.2	176.6	101.4	21.3	2.1	1.4
55°	97.2	102.8	98.6	100.7	104.3	92.9	71.6	19.9	2.1	1.4	1.4
57.5°	2.1	2.1	2.1	2.1	3.5	5.0	5.0	1.4	1.4	1.4	1.4
60°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
62.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
65°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
67.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
70°	1.4	1.4	1.4	0.7	1.4	1.4	1.4	1.4	1.4	1.4	1.4
72.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.4	1.4	1.4
75°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.4	1.4	1.4
77.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.4	1.4
80°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.4	1.4
82.5°	0.0	0.0	0.0	0.0	0.7	0.7	0.7	0.7	0.7	0.7	1.4
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.7	0.7	0.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.7	0.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P1316462

CATALOG NUMBER: LDSQA3D09R459740DE010 3LSQCA30R 1MW

CANDELA DISTRIBUTION (continued):

	55°	60°	67.5°	90°	112.5°	135°	157.5°	180°
0°	322.7	322.7	322.7	322.7	322.7	322.7	322.7	322.7
2.5°	432.6	419.1	394.3	320.6	257.4	207.8	178.0	175.2
5°	535.4	499.3	446.8	300.7	190.1	120.6	87.2	82.3
7.5°	617.0	565.9	485.1	268.1	129.8	61.7	34.0	28.4
10°	684.4	612.0	504.9	229.8	81.6	26.2	14.2	12.1
12.5°	730.5	643.2	508.5	187.2	46.8	12.8	9.2	8.5
15°	760.3	653.2	491.5	144.0	26.2	8.5	7.8	7.1
17.5°	772.3	644.7	458.8	104.3	14.2	6.4	6.4	6.4
20°	766.6	617.0	410.6	73.0	9.2	5.7	5.7	5.7
22.5°	739.7	569.5	350.3	48.9	6.4	5.0	5.0	5.0
25°	686.5	504.9	286.5	32.6	4.3	4.3	5.0	5.0
27.5°	607.1	425.5	219.1	22.0	3.5	4.3	5.0	5.0
30°	507.1	336.9	157.4	14.2	3.5	4.3	4.3	5.0
32.5°	402.8	245.4	103.5	8.5	2.8	4.3	5.0	5.7
35°	292.2	167.4	66.0	4.3	3.5	4.3	5.0	5.7
37.5°	205.0	109.2	38.3	2.8	3.5	4.3	5.7	5.7
40°	133.3	61.0	14.2	2.1	3.5	5.0	5.7	6.4
42.5°	69.5	21.3	2.8	2.1	3.5	5.0	6.4	7.1
45°	17.7	2.8	0.7	2.1	4.3	5.7	7.1	7.1
47.5°	2.1	0.7	0.7	2.8	4.3	6.4	7.1	7.8
50°	0.7	1.4	1.4	2.8	4.3	6.4	7.8	8.5
52.5°	1.4	1.4	1.4	2.8	5.0	6.4	8.5	9.2
55°	1.4	1.4	1.4	2.8	5.0	7.1	8.5	9.2
57.5°	1.4	1.4	1.4	2.8	5.0	7.1	8.5	8.5
60°	1.4	1.4	1.4	2.8	5.0	7.1	8.5	8.5
62.5°	1.4	1.4	2.1	2.8	5.0	6.4	8.5	8.5
65°	1.4	2.1	2.1	2.8	5.0	6.4	7.8	8.5
67.5°	1.4	1.4	2.1	2.8	5.0	6.4	7.8	8.5
70°	1.4	1.4	2.1	2.8	4.3	5.7	7.1	7.8
72.5°	1.4	1.4	2.1	2.8	4.3	5.7	6.4	7.1
75°	1.4	1.4	2.1	2.8	3.5	5.0	6.4	6.4
77.5°	1.4	1.4	2.1	2.1	3.5	4.3	5.7	5.7
80°	1.4	1.4	2.1	2.1	2.8	3.5	4.3	5.0
82.5°	1.4	1.4	1.4	2.1	2.1	2.8	3.5	3.5
85°	1.4	1.4	1.4	1.4	1.4	2.1	2.1	2.1
87.5°	0.7	1.4	1.4	1.4	1.4	1.4	1.4	0.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)