

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: P1311194

Luminaire Tested: LDSQA3D05R459040DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1311194
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: LDSQA3D05R459040DE010 3LSQCA30R 1MW
Description: 3in Adjustable LED luminaire with, R45 optic, 4000K CCT AND, 90CRI , 3LSQCA30R 1MW TRIM
Light Source: -
Ballast/Driver: -

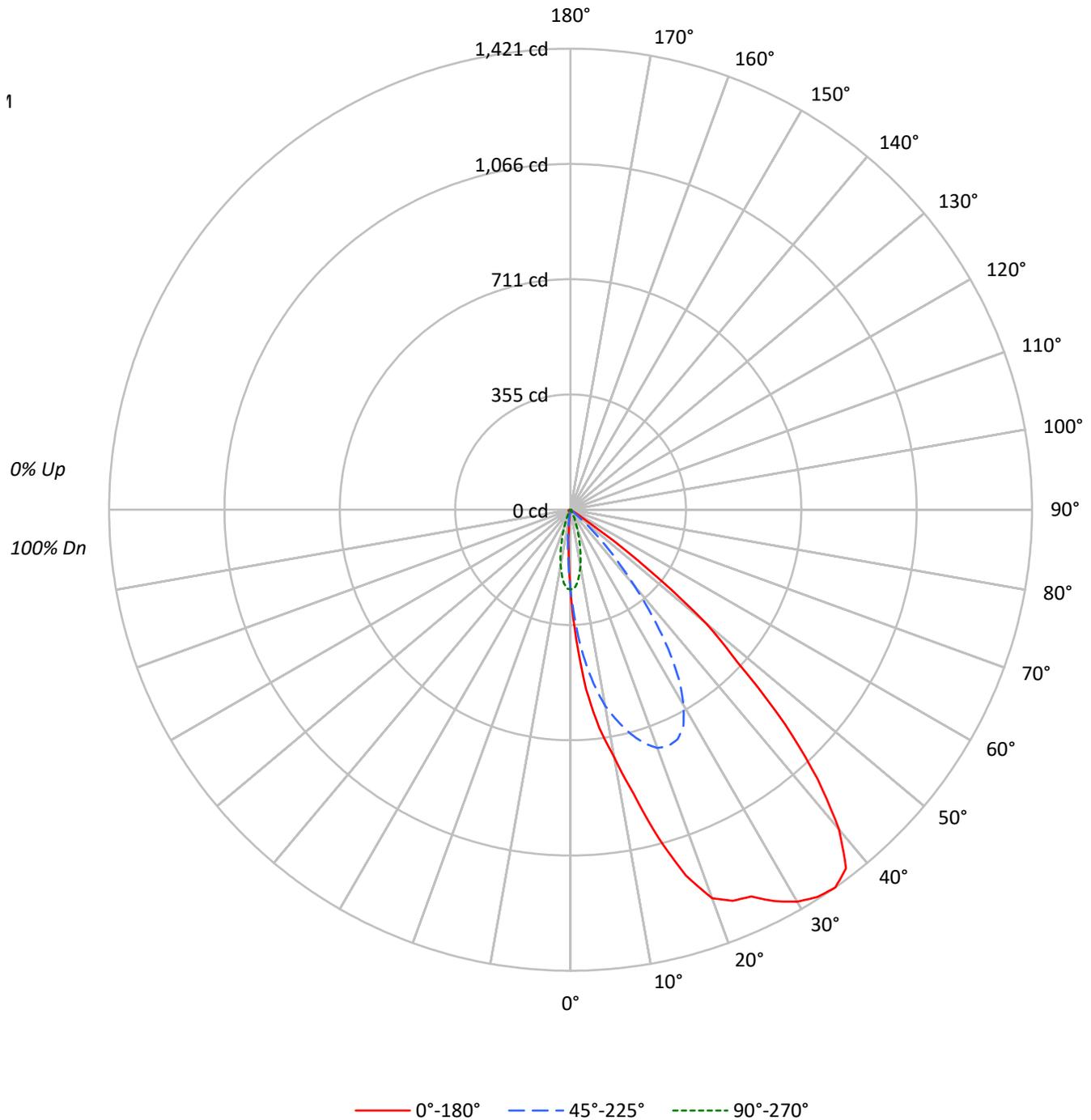
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 644.0 lumens
Efficiency: N/A
Efficacy: 89.4 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): 7.2
Input Voltage (V): NR
Input Current (A_{in}): 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: P1311194
CATALOG NUMBER: LDSQA3D05R459040DE010 3LSQCA30R 1MW

Luminous Intensity Polar Plot





TEST NUMBER: P1311194

CATALOG NUMBER: LDSQA3D05R459040DE010 3LSQCA30R 1MW

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	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°	42212	42212	42212	42212	42212
5°	96191	78021	39486	15836	10805
10°	135532	107184	30516	3480	1609
15°	186767	127519	19488	1159	963
20°	233548	143230	10172	788	788
25°	249923	148297	4713	608	722
30°	277398	138490	2148	636	756
35°	298821	110400	673	673	904
40°	289142	68413	360	854	1079
45°	227071	32272	390	1047	1315
50°	145888	3751	589	1286	1742
55°	22159	330	661	1621	2102
60°	379	379	758	1860	2239
65°	448	448	897	1956	2649
70°	554	554	1108	2165	2971
75°	333	732	1464	2529	3194
80°	496	1091	1587	2678	3769
85°	0	988	2174	3162	3162

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 227071 cd/sqm



TEST NUMBER: P1311194

CATALOG NUMBER: LDSQA3D05R459040DE010 3LSQCA30R 1MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	26.8	4.2
10°-20°	97.0	15.1
20°-30°	170.3	26.5
30°-40°	193.4	30.0
40°-50°	125.3	19.4
50°-60°	24.6	3.8
60°-70°	3.0	0.5
70°-80°	2.5	0.4
80°-90°	1.1	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°	294.1	45.7
0°-40°	487.6	75.7
0°-60°	637.4	99.0
0°-90°	644.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	644.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	245	245	245	245	245	
5°	556	451	228	92	62	59
15°	1048	715	109	6	5	302
25°	1315	780	25	3	4	617
35°	1421	525	3	3	4	874
45°	932	132	2	4	5	703
55°	74	1	2	5	7	141
65°	1	1	2	5	6	1
75°	0	1	2	4	5	1
85°	0	0	1	2	2	0
90°	0	0	0	0	0	



TEST NUMBER: P1311194

CATALOG NUMBER: LDSQA3D05R459040DE010 3LSQCA30R 1MW

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	245.1	245.1	245.1	245.1	245.1	245.1	245.1	245.1	245.1	245.1	245.1
2.5°	398.0	396.9	398.6	387.8	387.2	379.2	377.0	367.9	355.5	349.5	335.5
5°	556.4	551.0	551.0	538.0	533.7	524.6	509.0	489.6	473.4	451.3	427.6
7.5°	678.6	677.5	677.5	666.2	655.5	642.5	621.5	599.4	573.6	539.7	505.2
10°	775.0	776.6	771.8	761.6	745.9	731.9	707.2	680.2	648.5	612.9	567.1
12.5°	896.7	884.9	881.1	858.0	838.0	811.1	781.5	750.8	711.5	666.8	615.1
15°	1047.5	1032.5	1017.4	986.7	953.3	911.8	865.5	820.3	769.6	715.2	650.6
17.5°	1182.2	1182.2	1162.3	1113.8	1070.7	1009.3	946.8	886.5	826.7	755.1	674.3
20°	1274.3	1269.4	1254.4	1218.8	1169.8	1100.3	1019.0	934.4	862.3	781.5	687.8
22.5°	1304.4	1303.4	1303.9	1282.9	1243.6	1171.4	1071.8	972.1	881.7	787.9	681.3
25°	1315.2	1317.4	1322.8	1314.7	1285.1	1212.9	1104.1	989.9	887.6	780.4	656.5
27.5°	1359.9	1355.6	1361.5	1356.1	1322.8	1236.6	1110.6	985.6	874.7	752.9	612.4
30°	1394.9	1393.9	1404.1	1399.2	1355.6	1251.7	1104.6	969.4	842.9	696.4	542.9
32.5°	1414.9	1415.4	1418.1	1398.2	1333.5	1218.8	1075.5	936.6	783.1	622.6	452.4
35°	1421.3	1418.1	1403.0	1354.0	1265.7	1142.9	1003.9	858.5	701.8	525.1	357.6
37.5°	1393.3	1376.6	1337.8	1264.6	1162.3	1047.5	912.4	759.9	590.3	414.7	266.6
40°	1286.1	1264.1	1215.0	1140.2	1044.8	933.9	795.5	636.1	457.8	304.3	187.4
42.5°	1125.6	1114.3	1063.2	998.0	917.2	805.2	662.5	500.9	338.8	210.0	119.6
45°	932.3	917.7	885.4	827.8	764.2	646.8	513.8	358.7	231.1	132.5	59.2
47.5°	699.1	700.2	678.1	634.4	572.0	474.0	351.7	240.7	144.9	68.4	13.5
50°	544.5	537.0	505.7	461.0	388.3	315.6	227.3	151.9	76.5	14.0	1.1
52.5°	301.6	306.5	289.8	275.2	237.5	188.5	134.1	77.0	16.2	1.6	1.1
55°	73.8	78.1	74.9	76.5	79.2	70.6	54.4	15.1	1.6	1.1	1.1
57.5°	1.6	1.6	1.6	1.6	2.7	3.8	3.8	1.1	1.1	1.1	1.1
60°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
62.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
65°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
67.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
70°	1.1	1.1	1.1	0.5	1.1	1.1	1.1	1.1	1.1	1.1	1.1
72.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.1	1.1	1.1
75°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.1	1.1	1.1
77.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.1	1.1
80°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.1	1.1
82.5°	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.5	0.5	0.5	1.1
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.5	0.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.5
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: P1311194

CATALOG NUMBER: LDSQA3D05R459040DE010 3LSQCA30R 1MW

CANDELA DISTRIBUTION (continued):

	55°	60°	67.5°	90°	112.5°	135°	157.5°	180°
0°	245.1	245.1	245.1	245.1	245.1	245.1	245.1	245.1
2.5°	328.5	318.3	299.5	243.4	195.5	157.8	135.2	133.0
5°	406.6	379.2	339.3	228.4	144.3	91.6	66.2	62.5
7.5°	468.6	429.8	368.4	203.6	98.6	46.9	25.9	21.5
10°	519.7	464.8	383.5	174.5	61.9	19.9	10.8	9.2
12.5°	554.7	488.5	386.2	142.2	35.5	9.7	7.0	6.5
15°	577.4	496.0	373.2	109.3	19.9	6.5	5.9	5.4
17.5°	586.5	489.6	348.5	79.2	10.8	4.8	4.8	4.8
20°	582.2	468.6	311.8	55.5	7.0	4.3	4.3	4.3
22.5°	561.7	432.5	266.1	37.2	4.8	3.8	3.8	3.8
25°	521.3	383.5	217.6	24.8	3.2	3.2	3.8	3.8
27.5°	461.0	323.1	166.4	16.7	2.7	3.2	3.8	3.8
30°	385.1	255.8	119.6	10.8	2.7	3.2	3.2	3.8
32.5°	305.9	186.3	78.6	6.5	2.2	3.2	3.8	4.3
35°	221.9	127.1	50.1	3.2	2.7	3.2	3.8	4.3
37.5°	155.7	82.9	29.1	2.2	2.7	3.2	4.3	4.3
40°	101.3	46.3	10.8	1.6	2.7	3.8	4.3	4.8
42.5°	52.8	16.2	2.2	1.6	2.7	3.8	4.8	5.4
45°	13.5	2.2	0.5	1.6	3.2	4.3	5.4	5.4
47.5°	1.6	0.5	0.5	2.2	3.2	4.8	5.4	5.9
50°	0.5	1.1	1.1	2.2	3.2	4.8	5.9	6.5
52.5°	1.1	1.1	1.1	2.2	3.8	4.8	6.5	7.0
55°	1.1	1.1	1.1	2.2	3.8	5.4	6.5	7.0
57.5°	1.1	1.1	1.1	2.2	3.8	5.4	6.5	6.5
60°	1.1	1.1	1.1	2.2	3.8	5.4	6.5	6.5
62.5°	1.1	1.1	1.6	2.2	3.8	4.8	6.5	6.5
65°	1.1	1.6	1.6	2.2	3.8	4.8	5.9	6.5
67.5°	1.1	1.1	1.6	2.2	3.8	4.8	5.9	6.5
70°	1.1	1.1	1.6	2.2	3.2	4.3	5.4	5.9
72.5°	1.1	1.1	1.6	2.2	3.2	4.3	4.8	5.4
75°	1.1	1.1	1.6	2.2	2.7	3.8	4.8	4.8
77.5°	1.1	1.1	1.6	1.6	2.7	3.2	4.3	4.3
80°	1.1	1.1	1.6	1.6	2.2	2.7	3.2	3.8
82.5°	1.1	1.1	1.1	1.6	1.6	2.2	2.7	2.7
85°	1.1	1.1	1.1	1.1	1.1	1.6	1.6	1.6
87.5°	0.5	1.1	1.1	1.1	1.1	1.1	1.1	0.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)