

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: P1312300

Luminaire Tested: LDSQA3D05R559050DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1312300
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-66)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D05R559050DE010 3LSQCA30R 1MW
Description: 3in Adjustable LED luminaire with, R55 optic, 5000K CCT AND, 90CRI , 3LSQCA30R 1MW TRIM
Light Source: -
Ballast/Driver: -

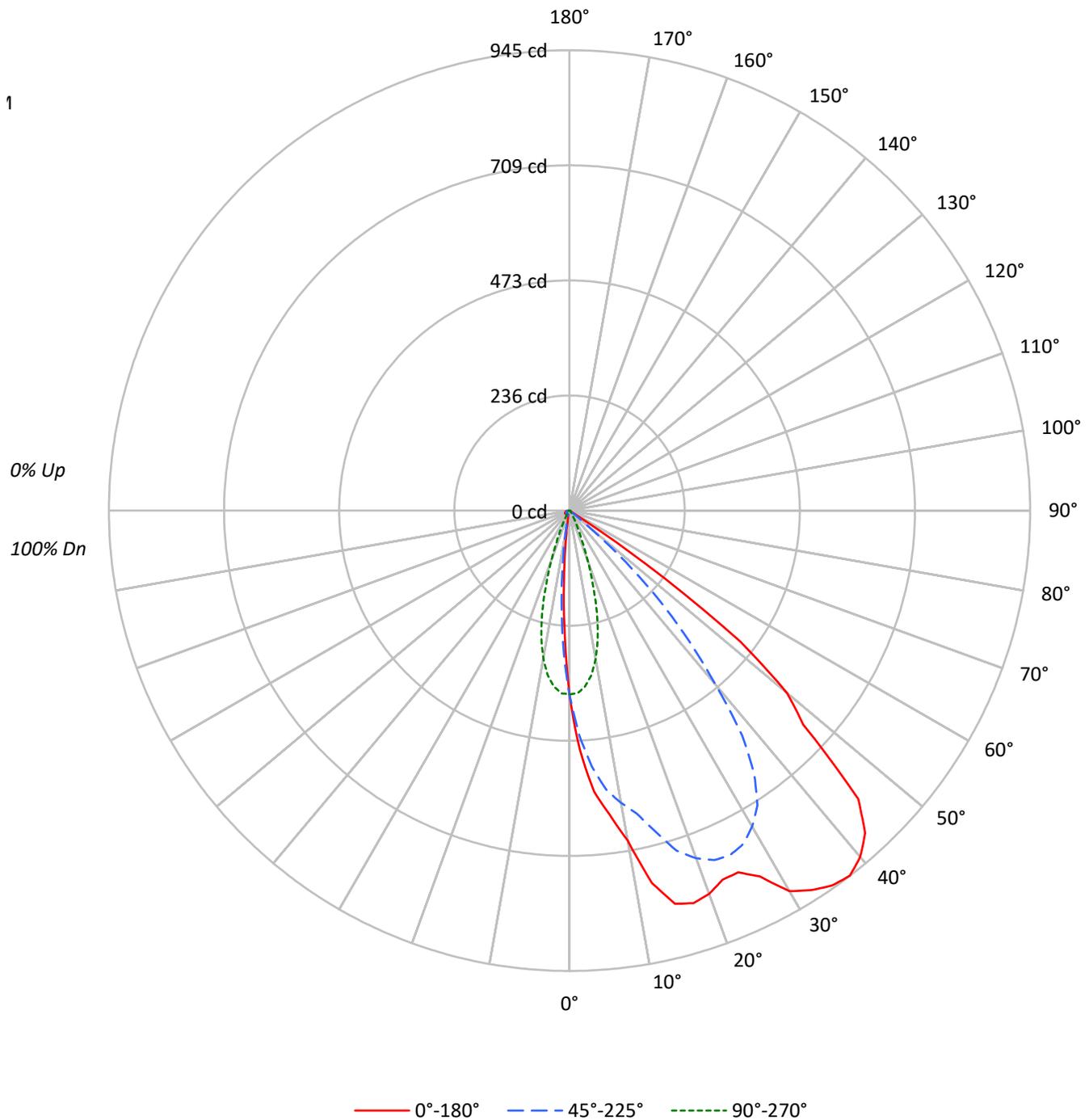
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 628.9 lumens
Efficiency: N/A
Efficacy: 87.4 lumens/watt
Spacing Criteria (0/90/45): 1.79 / 0.55 / 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 (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	112	109	106	103	110	107	104	102	103	100	98	99	97	95	95	94	93	95	94	93	91
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	83	88	86	83	81
3	98	90	84	79	96	89	83	79	86	81	77	83	79	76	81	78	75	81	78	75	73
4	91	82	75	70	89	81	75	70	79	73	69	77	72	68	75	71	67	75	71	67	65
5	85	75	68	63	84	74	67	62	72	66	62	70	65	61	69	64	61	69	64	61	59
6	80	69	62	56	78	68	61	56	66	60	56	65	59	55	63	59	55	63	59	55	53
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	59	54	50	48
8	70	58	51	46	68	58	51	46	57	50	46	55	50	46	54	49	45	54	49	45	44
9	66	54	47	42	64	53	47	42	52	46	42	51	46	42	50	45	41	50	45	41	40
10	62	50	43	39	61	50	43	38	49	43	38	48	42	38	47	42	38	47	42	38	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	64928	64928	64928	64928	64928
5°	100132	91160	62721	32208	21161
10°	120300	106537	53985	8114	3253
15°	148950	121671	38584	2247	1747
20°	153420	139198	19922	1503	1503
25°	155632	148259	8000	1349	1558
30°	179397	148970	3480	1412	1631
35°	197462	138888	1493	1493	1829
40°	208589	104542	854	1709	1956
45°	204006	63886	804	1851	2387
50°	156043	13611	884	2197	2786
55°	57260	480	991	2462	3123
60°	551	551	1137	2824	3582
65°	652	652	1345	2893	3790
70°	554	806	1360	3323	4381
75°	333	732	1464	3660	5057
80°	496	1091	1587	3769	5455
85°	0	988	2174	4347	5335

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 204006 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	33.2	5.3
10°-20°	95.0	15.1
20°-30°	145.8	23.2
30°-40°	169.9	27.0
40°-50°	135.8	21.6
50°-60°	40.2	6.4
60°-70°	4.3	0.7
70°-80°	3.4	0.5
80°-90°	1.4	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°	274.0	43.6
0°-40°	443.9	70.6
0°-60°	619.9	98.6
0°-90°	628.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	628.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	377	377	377	377	377	
5°	579	527	363	186	122	58
15°	835	682	216	13	10	231
25°	819	780	42	7	8	389
35°	939	661	7	7	9	585
45°	838	262	3	8	10	604
55°	191	2	3	8	10	202
65°	2	2	3	7	9	1
75°	0	1	2	6	8	1
85°	0	0	1	2	3	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	377.0	377.0	377.0	377.0	377.0	377.0	377.0	377.0	377.0	377.0	377.0
2.5°	491.7	491.7	490.1	490.6	489.6	483.5	482.5	474.8	468.2	461.1	455.1
5°	579.2	580.3	578.6	575.3	571.0	566.6	557.3	550.2	540.9	527.3	514.7
7.5°	628.9	627.8	625.1	624.0	621.2	616.3	609.8	602.1	591.2	577.5	562.8
10°	687.9	678.6	675.9	671.5	662.8	652.9	641.4	631.1	621.8	609.2	593.4
12.5°	783.0	781.3	770.4	762.2	750.2	728.3	708.7	685.7	658.4	636.5	615.8
15°	835.4	836.5	831.6	825.0	817.4	799.4	779.7	752.9	720.7	682.4	648.6
17.5°	844.7	846.3	843.6	840.9	838.7	828.3	816.3	797.2	767.7	732.1	681.9
20°	837.1	840.3	840.9	844.2	848.5	844.2	834.3	821.2	796.6	759.5	711.4
22.5°	820.1	826.1	830.5	842.0	853.4	853.4	847.4	837.1	813.0	776.4	727.2
25°	819.0	820.1	821.8	840.3	858.4	862.2	856.7	845.8	819.6	780.2	726.7
27.5°	846.3	839.2	828.3	846.9	868.2	871.5	863.8	849.1	817.9	771.5	708.1
30°	902.1	886.2	863.3	876.9	891.7	887.9	872.6	849.1	807.0	749.1	673.1
32.5°	923.4	914.6	906.4	921.2	923.9	908.1	880.8	845.8	789.5	717.4	615.8
35°	939.2	939.8	936.5	939.2	926.1	903.7	873.7	827.8	756.7	660.6	539.8
37.5°	944.7	945.8	938.7	928.8	909.2	883.5	847.4	795.0	702.1	582.4	425.1
40°	927.8	924.5	913.0	899.3	878.0	851.8	812.5	734.3	620.7	465.0	331.7
42.5°	897.7	892.2	878.6	862.2	839.8	806.5	743.6	649.1	504.3	362.8	232.2
45°	837.6	833.8	816.8	804.8	778.0	734.9	654.0	534.9	390.1	262.3	134.4
47.5°	650.7	651.3	664.4	670.4	661.1	626.7	531.6	406.5	284.7	156.3	45.3
50°	582.4	579.7	566.6	548.6	518.5	467.2	390.1	287.4	168.3	50.8	6.6
52.5°	442.0	442.0	435.5	426.2	394.5	344.8	263.9	159.0	59.0	8.7	1.6
55°	190.7	180.9	186.3	196.7	188.5	163.9	123.5	47.5	10.4	1.6	1.6
57.5°	2.7	6.6	9.8	15.8	21.3	25.7	13.7	4.9	1.6	1.6	1.6
60°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
62.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
65°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
67.5°	1.1	1.1	1.1	1.6	1.1	1.6	1.6	1.6	1.6	1.6	1.6
70°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.6	1.6
72.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
75°	0.5	0.5	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
77.5°	0.5	0.5	0.5	0.5	0.5	0.5	1.1	1.1	1.1	1.1	1.1
80°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.1	1.1	1.1
82.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.1	1.1
85°	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.5	0.5	0.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.5	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



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CANDELA DISTRIBUTION (continued):

	55°	60°	67.5°	90°	112.5°	135°	157.5°	180°
0°	377.0	377.0	377.0	377.0	377.0	377.0	377.0	377.0
2.5°	446.4	437.1	421.8	375.4	327.3	283.0	251.3	239.3
5°	500.5	483.5	457.9	362.8	267.2	186.3	140.4	122.4
7.5°	543.1	521.2	484.1	340.9	196.1	99.4	59.6	47.0
10°	571.5	547.5	498.8	308.7	130.0	46.4	22.4	18.6
12.5°	592.3	562.2	504.3	267.2	76.5	21.3	12.0	10.9
15°	607.6	568.8	497.8	216.4	42.1	12.6	9.8	9.8
17.5°	628.9	572.1	481.9	159.5	24.0	9.3	9.3	9.3
20°	645.3	572.1	451.9	108.7	14.8	8.2	8.2	8.2
22.5°	653.5	563.3	415.2	68.8	10.4	7.6	8.2	8.2
25°	645.3	542.0	368.3	42.1	8.2	7.1	7.6	8.2
27.5°	615.2	499.4	305.4	26.8	6.6	7.1	7.6	8.2
30°	565.0	437.6	234.4	17.5	6.0	7.1	7.6	8.2
32.5°	493.9	345.9	151.9	11.5	5.5	7.1	7.6	8.2
35°	385.7	244.8	91.8	7.1	5.5	7.1	8.2	8.7
37.5°	289.0	163.4	49.7	4.4	5.5	7.1	8.2	8.7
40°	200.5	95.1	21.3	3.8	5.5	7.6	8.7	8.7
42.5°	116.4	37.7	5.5	3.3	5.5	7.6	8.7	9.3
45°	42.6	7.6	1.6	3.3	6.0	7.6	8.7	9.8
47.5°	6.0	1.6	1.6	3.3	6.0	7.6	9.3	9.8
50°	1.6	1.6	1.6	3.3	6.0	8.2	9.8	10.4
52.5°	1.6	1.6	1.6	3.3	6.0	8.2	9.8	10.4
55°	1.6	1.6	1.6	3.3	6.0	8.2	9.8	10.4
57.5°	1.6	1.6	1.6	3.3	6.0	8.2	9.8	10.4
60°	1.6	1.6	1.6	3.3	5.5	8.2	9.8	10.4
62.5°	1.6	1.6	1.6	3.3	5.5	7.6	9.3	9.8
65°	1.6	1.6	1.6	3.3	4.9	7.1	9.3	9.3
67.5°	1.6	1.6	1.6	2.7	4.9	7.1	8.7	9.3
70°	1.6	1.6	1.6	2.7	4.4	6.6	8.2	8.7
72.5°	1.6	1.6	1.6	2.2	3.8	6.0	7.6	8.2
75°	1.1	1.6	1.6	2.2	3.8	5.5	7.1	7.6
77.5°	1.1	1.6	1.6	1.6	3.3	4.4	6.0	6.6
80°	1.1	1.1	1.6	1.6	2.7	3.8	4.9	5.5
82.5°	1.1	1.1	1.1	1.6	2.2	2.7	3.8	3.8
85°	1.1	1.1	1.1	1.1	1.6	2.2	2.7	2.7
87.5°	0.5	0.5	1.1	1.1	1.1	1.1	1.1	1.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)