

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: P1314379

Luminaire Tested: LDSQA3D05R559730DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1314379
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: LDSQA3D05R559730DE010 3LSQCA30R 1MW
Description: 3in Adjustable LED luminaire with, R55 optic, 3000K CCT AND, 97CRI , 3LSQCA30R 1MW TRIM
Light Source: -
Ballast/Driver: -

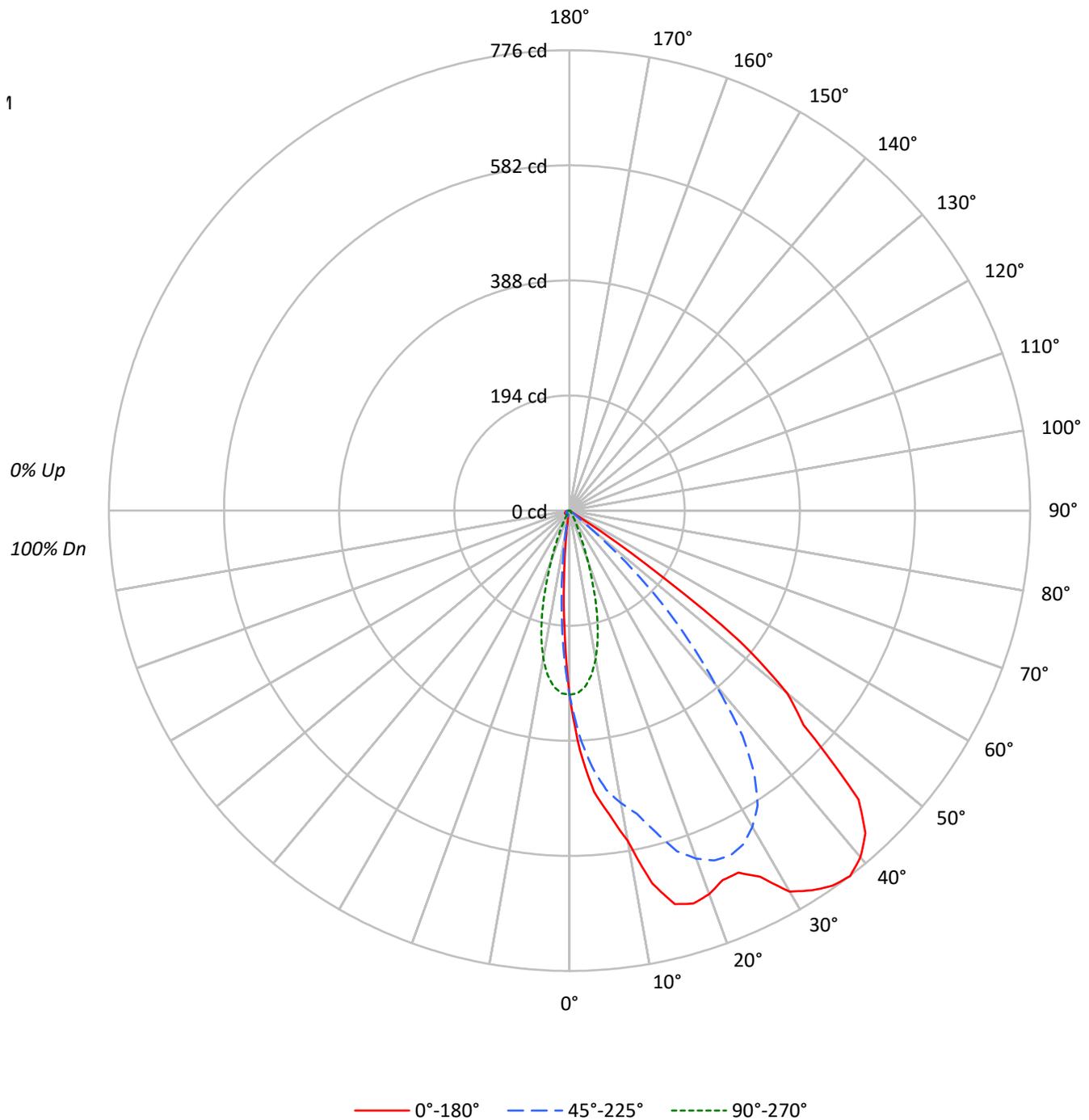
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 516.9 lumens
Efficiency: N/A
Efficacy: 71.8 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 (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: P1314379
CATALOG NUMBER: LDSQA3D05R559730DE010 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	100	100	100
1	112	109	106	103	110	107	104	102	103	100	98	99	97	95	95	94	93	91	91	91	91
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	83	81	81	81	81
3	98	90	84	79	96	89	83	79	86	81	77	83	79	76	81	78	75	73	73	73	73
4	92	82	75	70	90	81	75	70	79	73	69	77	72	68	75	71	67	65	65	65	65
5	85	75	68	63	84	74	67	62	72	66	62	70	65	61	69	64	61	59	59	59	59
6	80	69	62	56	78	68	61	56	66	60	56	65	59	55	63	59	55	53	53	53	53
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48	48	48	48
8	70	58	51	46	68	58	51	46	57	50	46	55	50	46	54	49	45	44	44	44	44
9	66	54	47	42	64	53	47	42	52	46	42	51	46	42	50	45	41	40	40	40	40
10	62	50	43	39	61	50	43	38	49	43	38	48	42	38	47	42	38	37	37	37	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	53372	53372	53372	53372	53372
5°	82291	74926	51553	26468	17392
10°	98877	87562	44367	6680	2676
15°	122437	100007	31701	1836	1444
20°	126094	114401	16385	1228	1228
25°	127926	121864	6575	1102	1273
30°	147439	122442	2864	1153	1332
35°	162309	114142	1219	1219	1514
40°	171448	85926	697	1416	1619
45°	167691	52511	658	1534	1973
50°	128259	11200	723	1795	2277
55°	47051	390	811	2012	2552
60°	448	448	930	2308	2928
65°	530	530	1100	2364	3097
70°	453	655	1108	2719	3626
75°	266	599	1198	2994	4192
80°	397	893	1289	3075	4463
85°	0	790	1778	3557	4347

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 167691 cd/sqm



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CATALOG NUMBER: LDSQA3D05R559730DE010 3LSQCA30R 1MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	27.3	5.3
10°-20°	78.1	15.1
20°-30°	119.8	23.2
30°-40°	139.6	27.0
40°-50°	111.6	21.6
50°-60°	33.0	6.4
60°-70°	3.5	0.7
70°-80°	2.7	0.5
80°-90°	1.2	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°	225.2	43.6
0°-40°	364.9	70.6
0°-60°	509.5	98.6
0°-90°	516.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	516.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	310	310	310	310	310	
5°	476	433	298	153	101	47
15°	687	561	178	10	8	190
25°	673	641	35	6	7	320
35°	772	543	6	6	7	481
45°	688	216	3	6	8	496
55°	157	1	3	7	8	166
65°	1	1	3	6	8	1
75°	0	1	2	4	6	1
85°	0	0	1	2	2	0
90°	0	0	0	0	0	



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CATALOG NUMBER: LDSQA3D05R559730DE010 3LSQCA30R 1MW

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	309.9	309.9	309.9	309.9	309.9	309.9	309.9	309.9	309.9	309.9	309.9
2.5°	404.2	404.2	402.8	403.3	402.4	397.4	396.5	390.3	384.9	379.0	374.1
5°	476.0	476.9	475.6	472.9	469.3	465.7	458.1	452.2	444.6	433.4	423.0
7.5°	516.9	516.0	513.8	512.9	510.6	506.6	501.2	494.9	485.9	474.7	462.6
10°	565.4	557.8	555.5	551.9	544.7	536.7	527.2	518.7	511.1	500.7	487.7
12.5°	643.5	642.2	633.2	626.5	616.6	598.6	582.5	563.6	541.2	523.2	506.1
15°	686.7	687.6	683.5	678.1	671.8	657.0	640.9	618.8	592.3	560.9	533.1
17.5°	694.3	695.6	693.4	691.1	689.4	680.8	670.9	655.2	631.0	601.8	560.5
20°	688.0	690.7	691.1	693.8	697.4	693.8	685.8	675.0	654.8	624.2	584.7
22.5°	674.1	679.0	682.6	692.0	701.5	701.5	696.5	688.0	668.2	638.2	597.7
25°	673.2	674.1	675.4	690.7	705.5	708.7	704.2	695.2	673.6	641.3	597.3
27.5°	695.6	689.8	680.8	696.1	713.6	716.3	710.0	697.9	672.3	634.1	582.0
30°	741.4	728.4	709.6	720.8	732.9	729.8	717.2	697.9	663.3	615.7	553.3
32.5°	759.0	751.8	745.0	757.2	759.4	746.4	723.9	695.2	648.9	589.7	506.1
35°	772.0	772.4	769.7	772.0	761.2	742.8	718.1	680.4	622.0	542.9	443.7
37.5°	776.5	777.4	771.5	763.5	747.3	726.2	696.5	653.4	577.1	478.7	349.4
40°	762.6	759.9	750.4	739.2	721.7	700.1	667.8	603.6	510.2	382.2	272.6
42.5°	737.9	733.4	722.1	708.7	690.3	662.9	611.2	533.5	414.5	298.2	190.9
45°	688.5	685.3	671.4	661.5	639.5	604.0	537.6	439.7	320.7	215.6	110.5
47.5°	534.9	535.3	546.1	551.0	543.4	515.1	437.0	334.1	234.0	128.4	37.3
50°	478.7	476.5	465.7	450.9	426.2	384.0	320.7	236.2	138.3	41.8	5.4
52.5°	363.3	363.3	357.9	350.3	324.2	283.4	216.9	130.7	48.5	7.2	1.3
55°	156.7	148.6	153.1	161.7	154.9	134.7	101.5	39.1	8.5	1.3	1.3
57.5°	2.2	5.4	8.1	13.0	17.5	21.1	11.2	4.0	1.3	1.3	1.3
60°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
62.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
65°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
67.5°	0.9	0.9	0.9	1.3	0.9	1.3	1.3	1.3	1.3	1.3	1.3
70°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.3	1.3
72.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
75°	0.4	0.4	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
77.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.9	0.9	0.9	0.9	0.9
80°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.9	0.9	0.9
82.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.9	0.9
85°	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.4	0.4	0.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.4	0.4
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: P1314379

CATALOG NUMBER: LDSQA3D05R559730DE010 3LSQCA30R 1MW

CANDELA DISTRIBUTION (continued):

	55°	60°	67.5°	90°	112.5°	135°	157.5°	180°
0°	309.9	309.9	309.9	309.9	309.9	309.9	309.9	309.9
2.5°	366.9	359.3	346.7	308.5	269.0	232.6	206.6	196.7
5°	411.4	397.4	376.3	298.2	219.6	153.1	115.4	100.6
7.5°	446.4	428.4	397.9	280.2	161.2	81.7	49.0	38.6
10°	469.7	450.0	410.0	253.7	106.9	38.2	18.4	15.3
12.5°	486.8	462.1	414.5	219.6	62.9	17.5	9.9	9.0
15°	499.4	467.5	409.1	177.8	34.6	10.3	8.1	8.1
17.5°	516.9	470.2	396.1	131.1	19.8	7.6	7.6	7.6
20°	530.4	470.2	371.4	89.4	12.1	6.7	6.7	6.7
22.5°	537.1	463.0	341.3	56.6	8.5	6.3	6.7	6.7
25°	530.4	445.5	302.7	34.6	6.7	5.8	6.3	6.7
27.5°	505.7	410.5	251.0	22.0	5.4	5.8	6.3	6.7
30°	464.4	359.7	192.7	14.4	4.9	5.8	6.3	6.7
32.5°	406.0	284.3	124.8	9.4	4.5	5.8	6.3	6.7
35°	317.1	201.2	75.4	5.8	4.5	5.8	6.7	7.2
37.5°	237.6	134.3	40.9	3.6	4.5	5.8	6.7	7.2
40°	164.8	78.1	17.5	3.1	4.5	6.3	7.2	7.2
42.5°	95.7	31.0	4.5	2.7	4.5	6.3	7.2	7.6
45°	35.0	6.3	1.3	2.7	4.9	6.3	7.2	8.1
47.5°	4.9	1.3	1.3	2.7	4.9	6.3	7.6	8.1
50°	1.3	1.3	1.3	2.7	4.9	6.7	8.1	8.5
52.5°	1.3	1.3	1.3	2.7	4.9	6.7	8.1	8.5
55°	1.3	1.3	1.3	2.7	4.9	6.7	8.1	8.5
57.5°	1.3	1.3	1.3	2.7	4.9	6.7	8.1	8.5
60°	1.3	1.3	1.3	2.7	4.5	6.7	8.1	8.5
62.5°	1.3	1.3	1.3	2.7	4.5	6.3	7.6	8.1
65°	1.3	1.3	1.3	2.7	4.0	5.8	7.6	7.6
67.5°	1.3	1.3	1.3	2.2	4.0	5.8	7.2	7.6
70°	1.3	1.3	1.3	2.2	3.6	5.4	6.7	7.2
72.5°	1.3	1.3	1.3	1.8	3.1	4.9	6.3	6.7
75°	0.9	1.3	1.3	1.8	3.1	4.5	5.8	6.3
77.5°	0.9	1.3	1.3	1.3	2.7	3.6	4.9	5.4
80°	0.9	0.9	1.3	1.3	2.2	3.1	4.0	4.5
82.5°	0.9	0.9	0.9	1.3	1.8	2.2	3.1	3.1
85°	0.9	0.9	0.9	0.9	1.3	1.8	2.2	2.2
87.5°	0.4	0.4	0.9	0.9	0.9	0.9	0.9	0.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)