

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: P1313405

Luminaire Tested: LDSQA3D05R559727DE010 3LSQCA30R 1MB

Issue Date: 1/29/2026

**Test Information**

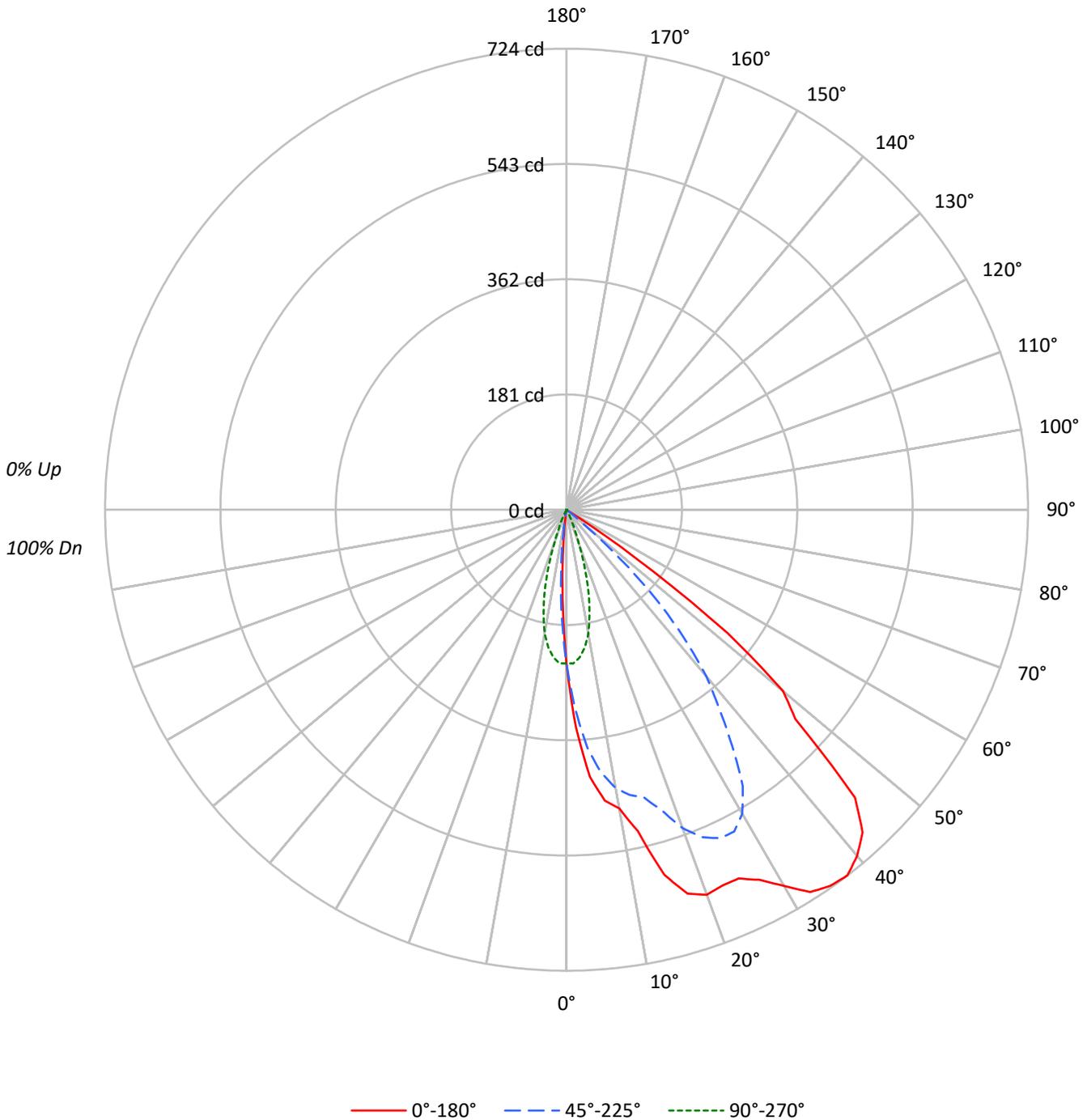
Test Method: LM-79-2019  
Report Number: P1313405  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-54)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D05R559727DE010 3LSQCA30R 1MB  
Description: 3in Adjustable LED luminaire with, R55 optic, 2700K CCT AND, 97CRI , 3LSQCA30R 1MB TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 446.0 lumens  
Efficiency: N/A  
Efficacy: 61.9 lumens/watt  
Spacing Criteria (0/90/45): 1.95 / 0.53 / 1.27  
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<sub>in</sub>): 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	100			100	
1	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91			91	
2	105	99	95	90	103	98	93	89	94	91	87	91	88	86	88	86	84	82			82	
3	98	91	84	80	96	89	83	79	86	82	78	84	80	76	81	78	75	73			73	
4	92	82	76	71	90	81	75	70	79	74	69	77	72	68	75	71	68	66			66	
5	86	75	68	63	84	74	68	63	72	67	62	71	65	61	69	64	61	59			59	
6	80	69	62	56	78	68	61	56	66	60	56	65	60	55	64	59	55	53			53	
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48			48	
8	70	58	51	46	68	58	51	46	56	50	46	55	50	46	54	49	45	44			44	
9	66	54	47	42	64	53	47	42	52	46	42	51	46	42	50	45	41	40			40	
10	62	50	43	38	60	49	43	38	49	42	38	48	42	38	47	42	38	36			36	

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°	135°	180°
0°	41506	41506	41506	41506	41506
5°	72748	64847	40281	16735	9629
10°	83260	77629	34451	1836	665
15°	105820	83319	23607	374	232
20°	117919	97484	10373	0	0
25°	121389	108163	2945	0	0
30°	135606	109615	418	0	0
35°	151566	95178	0	0	0
40°	159443	76619	0	0	0
45°	155878	48395	0	0	0
50°	118693	9887	0	0	0
55°	38884	0	0	0	0
60°	0	0	0	0	0
65°	0	163	163	0	0
70°	0	201	201	0	0
75°	0	266	266	0	0
80°	0	397	793	397	0
85°	0	790	790	790	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 155878 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	22.0	4.9
10°-20°	64.5	14.5
20°-30°	104.9	23.5
30°-40°	124.7	28.0
40°-50°	102.0	22.9
50°-60°	27.0	6.1
60°-70°	0.2	0.0
70°-80°	0.3	0.1
80°-90°	0.3	0.1
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°	191.5	42.9
0°-40°	316.2	70.9
0°-60°	445.2	99.8
0°-90°	446.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	446.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	241	241	241	241	241	
5°	421	375	233	97	56	41
15°	594	467	132	2	1	166
25°	639	569	16	0	0	301
35°	721	453	0	0	0	448
45°	640	199	0	0	0	459
55°	130	0	0	0	0	146
65°	0	0	0	0	0	0
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	67.5°
0°	241.0	241.0	241.0	241.0	241.0	241.0	241.0	241.0	241.0	241.0	241.0
2.5°	342.0	339.5	339.9	338.7	339.9	334.5	328.6	323.1	319.0	313.1	277.5
5°	420.8	416.6	415.4	413.7	412.0	405.3	399.8	393.1	385.2	375.1	309.7
7.5°	460.6	457.3	455.6	456.4	452.7	450.1	443.0	435.5	427.1	416.2	334.0
10°	476.1	472.8	472.4	471.9	471.5	469.8	466.5	459.8	452.2	443.9	347.9
12.5°	516.8	509.2	504.2	498.3	491.2	482.0	474.5	468.6	465.7	458.9	354.2
15°	593.5	586.4	580.9	573.4	560.0	540.3	522.2	499.2	479.1	467.3	351.6
17.5°	632.0	628.7	624.1	619.1	609.8	595.6	577.1	552.8	527.3	494.2	339.5
20°	643.4	641.7	638.3	636.2	630.0	619.9	607.3	588.5	564.6	531.9	320.6
22.5°	638.8	640.0	641.7	647.1	648.0	640.8	629.1	611.1	586.8	556.6	291.7
25°	638.8	637.9	637.9	649.2	656.4	653.0	644.6	628.3	603.5	569.2	256.1
27.5°	655.1	650.1	639.6	651.3	663.1	661.8	654.3	635.0	607.3	569.6	212.5
30°	681.9	671.0	653.8	664.7	675.6	671.0	658.9	634.1	598.9	551.2	159.3
32.5°	711.7	706.7	697.8	705.0	703.3	684.9	663.1	628.7	581.8	514.3	107.3
35°	720.9	721.7	715.9	714.6	705.0	686.1	663.1	613.2	545.7	452.7	63.7
37.5°	723.8	724.3	715.0	703.3	689.0	666.8	639.2	581.3	479.1	393.1	33.9
40°	709.2	708.7	693.7	679.4	663.5	641.7	601.4	514.3	415.8	340.8	12.2
42.5°	687.4	681.9	667.7	650.1	630.8	603.5	540.7	434.2	361.3	272.9	0.8
45°	640.0	635.0	623.7	604.8	583.4	544.9	445.5	373.0	293.8	198.7	0.0
47.5°	486.6	484.1	495.8	498.3	497.9	453.9	371.8	304.3	215.9	115.7	0.0
50°	443.0	439.7	427.9	412.8	386.0	349.1	298.0	225.5	126.6	36.9	0.0
52.5°	318.1	329.0	331.5	320.2	295.1	258.6	205.4	129.9	44.0	0.0	0.0
55°	129.5	122.8	127.8	134.1	139.2	127.8	94.7	46.1	0.4	0.0	0.0
57.5°	0.0	0.4	2.5	5.9	9.6	12.2	13.0	0.8	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.4	0.4	0.4
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.4
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.4
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.4	0.4
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.4	0.8
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.4	0.8
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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



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**CANDELA DISTRIBUTION (continued):**

	90°	112.5°	135°	157.5°	180°
0°	241.0	241.0	241.0	241.0	241.0
2.5°	241.8	204.5	168.5	148.8	139.2
5°	233.0	156.3	96.8	67.1	55.7
7.5°	218.4	107.3	38.6	15.9	11.3
10°	197.0	61.6	10.5	4.2	3.8
12.5°	166.4	28.1	3.8	2.9	2.9
15°	132.4	9.6	2.1	1.7	1.3
17.5°	93.0	2.5	0.8	0.0	0.0
20°	56.6	0.4	0.0	0.0	0.0
22.5°	31.4	0.0	0.0	0.0	0.0
25°	15.5	0.0	0.0	0.0	0.0
27.5°	6.7	0.0	0.0	0.0	0.0
30°	2.1	0.0	0.0	0.0	0.0
32.5°	0.0	0.0	0.0	0.0	0.0
35°	0.0	0.0	0.0	0.0	0.0
37.5°	0.0	0.0	0.0	0.0	0.0
40°	0.0	0.0	0.0	0.0	0.0
42.5°	0.0	0.0	0.0	0.0	0.0
45°	0.0	0.0	0.0	0.0	0.0
47.5°	0.0	0.0	0.0	0.0	0.0
50°	0.0	0.0	0.0	0.0	0.0
52.5°	0.0	0.0	0.0	0.0	0.0
55°	0.0	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0	0.0
62.5°	0.4	0.0	0.0	0.0	0.0
65°	0.4	0.4	0.0	0.0	0.0
67.5°	0.4	0.4	0.0	0.0	0.0
70°	0.4	0.4	0.0	0.0	0.0
72.5°	0.4	0.4	0.0	0.0	0.0
75°	0.4	0.4	0.0	0.0	0.0
77.5°	0.8	0.4	0.4	0.0	0.0
80°	0.8	0.4	0.4	0.0	0.0
82.5°	0.8	0.4	0.4	0.0	0.0
85°	0.4	0.4	0.4	0.0	0.0
87.5°	0.8	0.4	0.4	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)