

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: P1306866

Luminaire Tested: LDSQA3D05R459024DE010 3LSQCA30R 1MB

Issue Date: 1/29/2026

**Test Information**

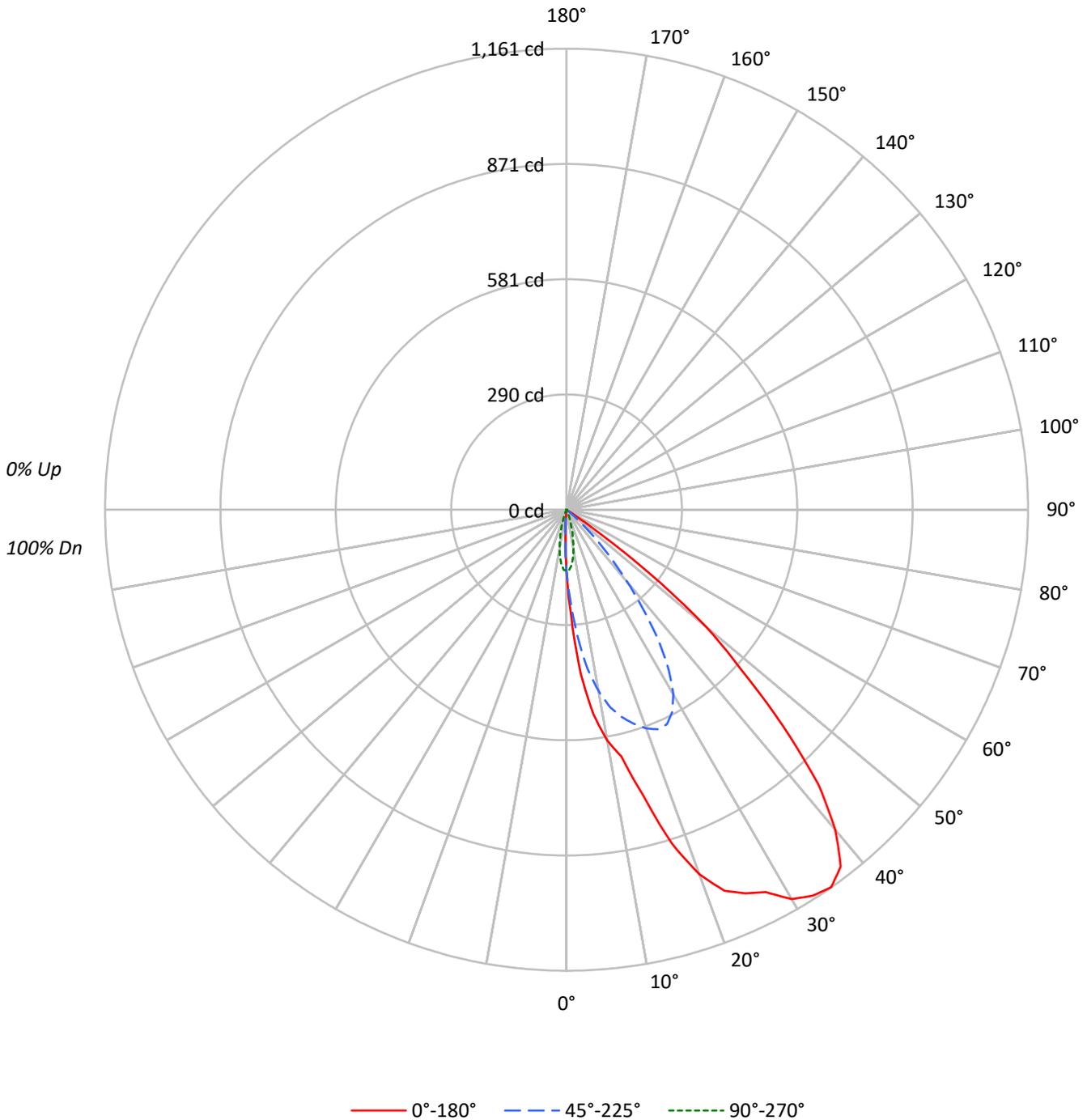
Test Method: LM-79-2019  
Report Number: P1306866  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-58)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D05R459024DE010 3LSQCA30R 1MB  
Description: 3in Adjustable LED luminaire with, R45 optic, 2400K CCT AND, 90CRI , 3LSQCA30R 1MB TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 492.0 lumens  
Efficiency: N/A  
Efficacy: 68.3 lumens/watt  
Spacing Criteria (0/90/45): 2.27 / 0.42 / 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				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	104	110	107	104	102	103	101	99	99	98	96	96	94	93	96	94	93	91
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	89	86	84	82
3	99	91	85	80	97	90	84	80	87	82	78	84	80	77	82	79	76	82	79	76	74
4	92	83	76	71	90	82	76	71	80	74	70	77	73	69	76	72	68	76	72	68	67
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	70	65	62	70	65	62	60
6	80	70	62	57	79	69	62	57	67	61	57	66	60	56	64	59	56	64	59	56	54
7	75	64	57	52	74	63	56	51	62	56	51	61	55	51	59	54	51	59	54	51	49
8	70	59	52	47	69	58	51	47	57	51	46	56	50	46	55	50	46	55	50	46	44
9	66	54	47	43	65	54	47	42	53	47	42	52	46	42	51	46	42	51	46	42	40
10	62	50	43	39	61	50	43	39	49	43	39	48	42	38	47	42	38	47	42	38	37

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

	0°	45°	90°	135°	180°
0°	26316	26316	26316	26316	26316
5°	71849	55270	24359	4893	1833
10°	103179	81092	17610	455	385
15°	132832	96459	9378	160	0
20°	179042	107326	3556	0	0
25°	202492	113370	931	0	0
30°	225096	106890	80	0	0
35°	244010	85233	0	0	0
40°	236489	53507	0	0	0
45°	187492	25501	0	0	0
50°	122712	3188	0	0	0
55°	21078	0	0	0	0
60°	0	0	138	0	0
65°	0	163	163	0	0
70°	0	201	453	0	0
75°	0	266	599	0	0
80°	0	397	893	397	0
85°	0	790	1778	790	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 187492 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	18.2	3.7
10°-20°	70.1	14.2
20°-30°	131.2	26.7
30°-40°	153.2	31.1
40°-50°	99.9	20.3
50°-60°	18.5	3.8
60°-70°	0.2	0.0
70°-80°	0.4	0.1
80°-90°	0.4	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°	219.5	44.6
0°-40°	372.6	75.7
0°-60°	491.1	99.8
0°-90°	492.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	492.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	153	153	153	153	153	
5°	416	320	141	28	11	45
15°	745	541	53	1	0	222
25°	1066	597	5	0	0	493
35°	1161	405	0	0	0	712
45°	770	105	0	0	0	585
55°	70	0	0	0	0	122
65°	0	0	0	0	0	0
75°	0	0	1	0	0	0
85°	0	0	1	0	0	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°	152.8	152.8	152.8	152.8	152.8	152.8	152.8	152.8	152.8	152.8	152.8
2.5°	269.4	271.6	267.2	265.4	259.7	261.0	251.3	247.3	241.1	231.0	226.1
5°	415.6	411.6	408.1	400.6	396.1	384.2	371.0	355.9	337.8	319.7	299.0
7.5°	519.8	516.7	515.4	509.2	500.4	488.0	470.8	451.8	428.4	404.1	372.7
10°	590.0	586.9	581.6	575.4	568.4	558.2	541.4	520.7	495.1	463.7	427.1
12.5°	635.9	635.5	626.7	619.6	610.8	601.9	584.7	567.9	542.8	510.5	469.0
15°	745.0	738.0	726.5	706.6	681.9	658.9	631.1	604.6	577.2	541.0	494.6
17.5°	881.0	873.1	853.7	828.5	788.7	745.0	697.3	655.4	614.3	565.3	510.5
20°	976.9	973.8	957.4	928.3	885.9	828.0	765.3	706.2	648.3	585.6	518.0
22.5°	1038.3	1036.5	1029.9	1010.0	966.7	901.8	821.0	741.5	671.7	598.4	515.8
25°	1065.6	1067.8	1068.7	1059.0	1024.1	957.9	862.1	768.4	685.0	596.6	499.0
27.5°	1085.1	1085.1	1088.6	1084.2	1048.9	979.1	877.9	777.7	680.5	575.0	463.7
30°	1131.9	1131.0	1133.2	1121.3	1072.3	985.7	870.9	762.7	655.4	537.5	412.9
32.5°	1152.2	1153.1	1152.6	1133.7	1076.7	981.3	853.7	734.0	609.0	478.7	345.8
35°	1160.6	1156.6	1140.3	1097.0	1025.0	922.6	805.1	685.4	544.1	405.4	272.9
37.5°	1132.8	1121.3	1085.1	1025.9	938.0	839.5	724.7	598.4	458.0	318.0	205.4
40°	1051.9	1036.9	991.4	919.9	839.5	750.8	629.8	496.4	358.2	238.0	144.0
42.5°	937.6	920.3	871.3	809.1	735.7	642.6	522.0	388.6	262.3	164.3	91.4
45°	769.8	760.0	731.8	679.2	607.2	510.5	400.1	283.5	181.5	104.7	46.8
47.5°	595.3	582.9	562.6	526.4	466.4	374.5	280.0	192.5	116.6	51.7	9.7
50°	458.0	443.4	418.7	378.5	315.8	250.0	181.5	120.1	59.2	11.9	0.4
52.5°	263.6	266.7	254.8	229.2	194.3	149.7	105.1	60.5	13.2	0.4	0.0
55°	70.2	76.0	74.2	79.9	70.2	59.2	43.7	11.5	0.9	0.0	0.0
57.5°	0.0	0.0	0.4	0.9	2.6	4.0	1.3	0.4	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	0.0
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	0.0	0.4	0.4	0.4	0.4
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.4
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.4
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):**

	55°	60°	67.5°	90°	112.5°	135°	157.5°	180°
0°	152.8	152.8	152.8	152.8	152.8	152.8	152.8	152.8
2.5°	215.1	205.8	194.3	151.9	114.4	82.1	64.0	59.2
5°	279.1	256.6	227.4	140.9	70.7	28.3	12.8	10.6
7.5°	339.6	306.5	253.9	123.2	35.8	7.1	3.5	3.1
10°	386.4	341.8	273.4	100.7	13.2	2.6	2.2	2.2
12.5°	418.7	364.3	280.4	76.4	4.9	1.3	1.3	0.9
15°	437.2	373.2	273.8	52.6	1.8	0.9	0.0	0.0
17.5°	442.9	369.6	256.1	33.1	0.4	0.0	0.0	0.0
20°	438.1	352.4	228.3	19.4	0.0	0.0	0.0	0.0
22.5°	422.2	325.5	194.8	10.6	0.0	0.0	0.0	0.0
25°	392.6	287.5	155.5	4.9	0.0	0.0	0.0	0.0
27.5°	344.5	238.5	117.0	1.8	0.0	0.0	0.0	0.0
30°	289.7	185.9	83.0	0.4	0.0	0.0	0.0	0.0
32.5°	226.1	136.9	53.4	0.0	0.0	0.0	0.0	0.0
35°	170.0	95.8	31.8	0.0	0.0	0.0	0.0	0.0
37.5°	118.4	60.5	16.8	0.0	0.0	0.0	0.0	0.0
40°	73.8	32.7	5.7	0.0	0.0	0.0	0.0	0.0
42.5°	41.1	11.5	0.4	0.0	0.0	0.0	0.0	0.0
45°	9.7	0.9	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0
60°	0.0	0.4	0.4	0.4	0.0	0.0	0.0	0.0
62.5°	0.4	0.4	0.4	0.4	0.0	0.0	0.0	0.0
65°	0.4	0.4	0.4	0.4	0.4	0.0	0.0	0.0
67.5°	0.4	0.4	0.4	0.4	0.4	0.0	0.0	0.0
70°	0.4	0.4	0.4	0.9	0.4	0.0	0.0	0.0
72.5°	0.4	0.4	0.9	0.9	0.4	0.0	0.0	0.0
75°	0.4	0.4	0.9	0.9	0.4	0.0	0.0	0.0
77.5°	0.4	0.9	0.9	0.9	0.4	0.4	0.0	0.0
80°	0.4	0.9	0.9	0.9	0.9	0.4	0.0	0.0
82.5°	0.4	0.9	0.9	0.9	0.9	0.4	0.0	0.0
85°	0.4	0.9	0.9	0.9	0.4	0.4	0.0	0.0
87.5°	0.4	0.9	0.9	0.9	0.9	0.4	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)