

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: P1319707

Luminaire Tested: LDSQA3D02R459840DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1319707
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: LDSQA3D02R459840DE010 3LSQCA30R 1MW
Description: 3in Adjustable LED luminaire with, R45 optic, 4000K CCT AND, 98CRI , 3LSQCA30R 1MW TRIM
Light Source: -
Ballast/Driver: -

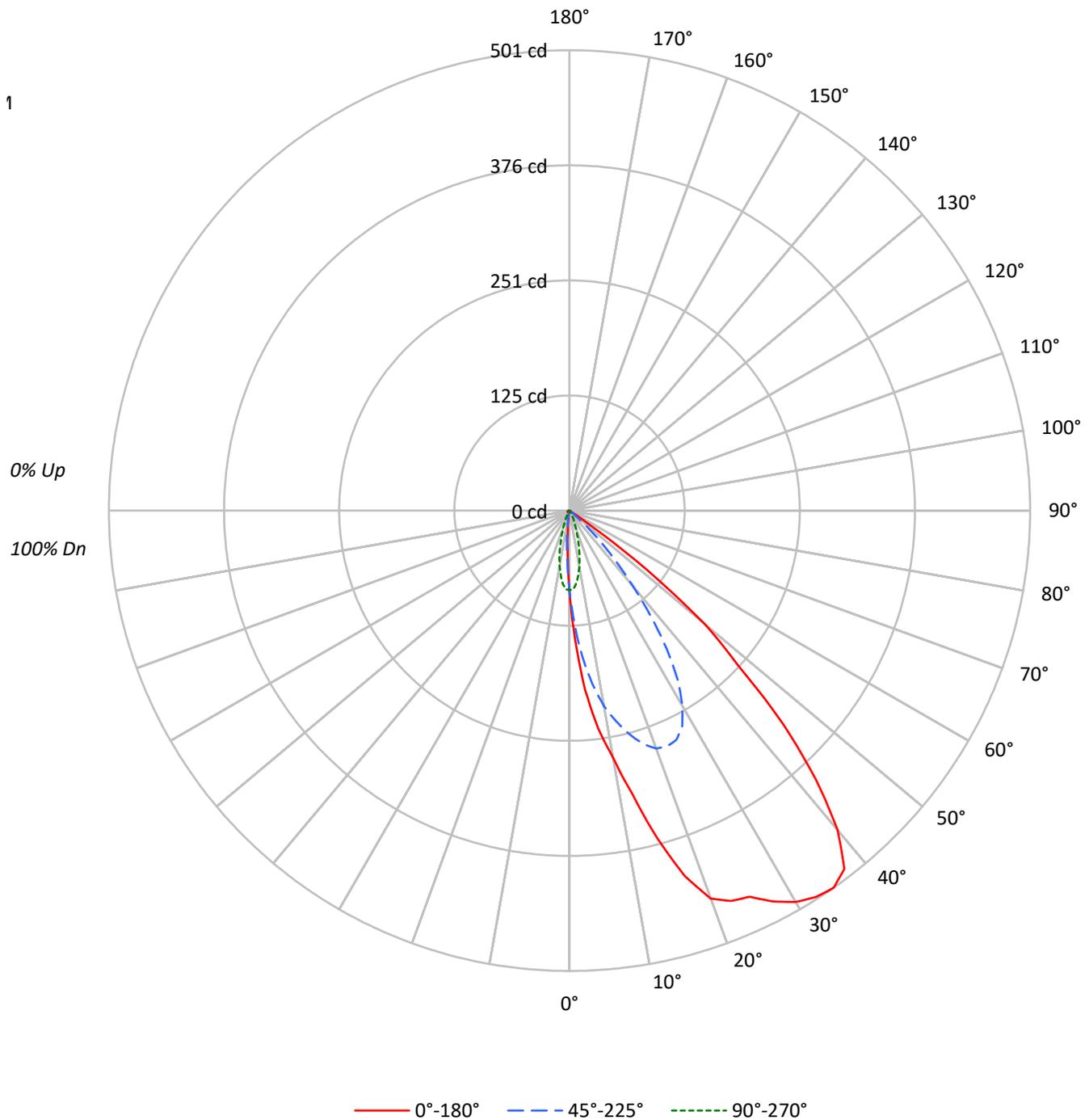
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 227.0 lumens
Efficiency: N/A
Efficacy: 63.1 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): 3.6
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				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	100	95	91	103	98	93	90	94	91	88	91	88	86	89	86	84	82				82
3	99	91	85	80	96	89	84	80	87	82	78	84	80	77	82	79	76	74				74
4	92	83	76	71	90	82	76	71	80	74	70	77	73	69	76	72	68	67				67
5	86	76	69	64	84	75	68	64	73	67	63	71	66	62	70	65	62	60				60
6	81	70	63	57	79	69	62	57	67	61	57	66	60	56	64	60	56	54				54
7	75	64	57	52	74	63	57	52	62	56	51	61	55	51	60	55	51	49				49
8	71	59	52	47	69	59	52	47	57	51	47	56	51	47	55	50	46	45				45
9	66	55	48	43	65	54	47	43	53	47	43	52	47	43	51	46	42	41				41
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	37				37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	14880	14880	14880	14880	14880
5°	33902	27505	13917	5584	3803
10°	47777	37774	10755	1224	560
15°	65828	44949	6864	410	339
20°	82327	50492	3592	275	275
25°	88096	52276	1653	209	247
30°	97782	48821	756	219	259
35°	105333	38916	231	231	315
40°	101911	24123	135	292	382
45°	80034	11374	146	365	463
50°	51416	1313	214	455	616
55°	7807	120	240	570	751
60°	138	138	276	654	792
65°	163	163	326	693	937
70°	201	201	403	755	1057
75°	133	266	532	865	1131
80°	198	397	595	893	1289
85°	0	395	790	1186	1186

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 80034 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9.5	4.2
10°-20°	34.2	15.1
20°-30°	60.0	26.4
30°-40°	68.2	30.0
40°-50°	44.1	19.4
50°-60°	8.7	3.8
60°-70°	1.1	0.5
70°-80°	0.9	0.4
80°-90°	0.4	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°	103.7	45.7
0°-40°	171.8	75.7
0°-60°	224.7	99.0
0°-90°	227.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	227.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	86	86	86	86	86	
5°	196	159	80	32	22	21
15°	369	252	38	2	2	106
25°	464	275	9	1	1	217
35°	501	185	1	1	2	308
45°	329	47	1	2	2	248
55°	26	0	1	2	2	50
65°	0	0	1	2	2	0
75°	0	0	1	1	2	0
85°	0	0	0	1	1	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°	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4
2.5°	140.3	139.9	140.5	136.7	136.5	133.6	132.9	129.7	125.3	123.2	118.3
5°	196.1	194.2	194.2	189.7	188.1	184.9	179.4	172.6	166.9	159.1	150.7
7.5°	239.2	238.8	238.8	234.8	231.0	226.5	219.1	211.3	202.2	190.2	178.1
10°	273.2	273.8	272.0	268.4	262.9	258.0	249.3	239.8	228.6	216.0	199.9
12.5°	316.1	311.9	310.6	302.4	295.4	285.9	275.5	264.6	250.8	235.0	216.8
15°	369.2	363.9	358.6	347.8	336.0	321.4	305.1	289.1	271.3	252.1	229.3
17.5°	416.7	416.7	409.7	392.6	377.4	355.8	333.7	312.5	291.4	266.2	237.7
20°	449.2	447.5	442.1	429.6	412.3	387.8	359.2	329.4	303.9	275.5	242.4
22.5°	459.8	459.4	459.6	452.2	438.3	412.9	377.8	342.7	310.8	277.7	240.1
25°	463.6	464.4	466.3	463.4	453.0	427.5	389.2	348.9	312.9	275.1	231.4
27.5°	479.4	477.8	479.9	478.0	466.3	435.9	391.5	347.4	308.3	265.4	215.9
30°	491.7	491.3	494.9	493.2	477.8	441.2	389.4	341.7	297.1	245.5	191.4
32.5°	498.7	498.9	499.9	492.8	470.0	429.6	379.1	330.1	276.0	219.5	159.5
35°	501.0	499.9	494.5	477.3	446.1	402.8	353.9	302.6	247.4	185.1	126.1
37.5°	491.1	485.2	471.6	445.7	409.7	369.2	321.6	267.9	208.1	146.2	94.0
40°	453.3	445.6	428.3	401.9	368.3	329.2	280.4	224.2	161.4	107.3	66.1
42.5°	396.8	392.8	374.7	351.8	323.3	283.8	233.5	176.6	119.4	74.0	42.1
45°	328.6	323.5	312.1	291.8	269.4	228.0	181.1	126.4	81.4	46.7	20.9
47.5°	246.4	246.8	239.0	223.6	201.6	167.1	124.0	84.9	51.1	24.1	4.7
50°	191.9	189.3	178.3	162.5	136.9	111.2	80.1	53.5	27.0	4.9	0.4
52.5°	106.3	108.0	102.1	97.0	83.7	66.4	47.3	27.1	5.7	0.6	0.4
55°	26.0	27.5	26.4	27.0	27.9	24.9	19.2	5.3	0.6	0.4	0.4
57.5°	0.6	0.6	0.6	0.6	0.9	1.3	1.3	0.4	0.4	0.4	0.4
60°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
62.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
65°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
67.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
70°	0.4	0.4	0.4	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
72.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.4	0.4
75°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.4	0.4
77.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.4
80°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.4
82.5°	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.2	0.2	0.2	0.4
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.2	0.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.2
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°	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4
2.5°	115.8	112.2	105.6	85.8	68.9	55.6	47.7	46.9
5°	143.3	133.6	119.6	80.5	50.9	32.3	23.4	22.0
7.5°	165.2	151.5	129.9	71.8	34.7	16.5	9.1	7.6
10°	183.2	163.8	135.2	61.5	21.8	7.0	3.8	3.2
12.5°	195.5	172.2	136.1	50.1	12.5	3.4	2.5	2.3
15°	203.5	174.8	131.6	38.5	7.0	2.3	2.1	1.9
17.5°	206.7	172.6	122.8	27.9	3.8	1.7	1.7	1.7
20°	205.2	165.2	109.9	19.6	2.5	1.5	1.5	1.5
22.5°	198.0	152.4	93.8	13.1	1.7	1.3	1.3	1.3
25°	183.8	135.2	76.7	8.7	1.1	1.1	1.3	1.3
27.5°	162.5	113.9	58.7	5.9	0.9	1.1	1.3	1.3
30°	135.7	90.2	42.1	3.8	0.9	1.1	1.1	1.3
32.5°	107.8	65.7	27.7	2.3	0.8	1.1	1.3	1.5
35°	78.2	44.8	17.7	1.1	0.9	1.1	1.3	1.5
37.5°	54.9	29.2	10.3	0.8	0.9	1.1	1.5	1.5
40°	35.7	16.3	3.8	0.6	0.9	1.3	1.5	1.7
42.5°	18.6	5.7	0.8	0.6	0.9	1.3	1.7	1.9
45°	4.7	0.8	0.2	0.6	1.1	1.5	1.9	1.9
47.5°	0.6	0.2	0.2	0.8	1.1	1.7	1.9	2.1
50°	0.2	0.4	0.4	0.8	1.1	1.7	2.1	2.3
52.5°	0.4	0.4	0.4	0.8	1.3	1.7	2.3	2.5
55°	0.4	0.4	0.4	0.8	1.3	1.9	2.3	2.5
57.5°	0.4	0.4	0.4	0.8	1.3	1.9	2.3	2.3
60°	0.4	0.4	0.4	0.8	1.3	1.9	2.3	2.3
62.5°	0.4	0.4	0.6	0.8	1.3	1.7	2.3	2.3
65°	0.4	0.6	0.6	0.8	1.3	1.7	2.1	2.3
67.5°	0.4	0.4	0.6	0.8	1.3	1.7	2.1	2.3
70°	0.4	0.4	0.6	0.8	1.1	1.5	1.9	2.1
72.5°	0.4	0.4	0.6	0.8	1.1	1.5	1.7	1.9
75°	0.4	0.4	0.6	0.8	0.9	1.3	1.7	1.7
77.5°	0.4	0.4	0.6	0.6	0.9	1.1	1.5	1.5
80°	0.4	0.4	0.6	0.6	0.8	0.9	1.1	1.3
82.5°	0.4	0.4	0.4	0.6	0.6	0.8	0.9	0.9
85°	0.4	0.4	0.4	0.4	0.4	0.6	0.6	0.6
87.5°	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)