

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: P1313419

Luminaire Tested: LDSQA3D05R609727DE010 3LSQCA45R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1313419
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-81)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D05R609727DE010 3LSQCA45R 1MW
Description: 3in Adjustable LED luminaire with, R60 optic, 2700K CCT AND, 97CRI , 3LSQCA45R 1MW TRIM
Light Source: -
Ballast/Driver: -

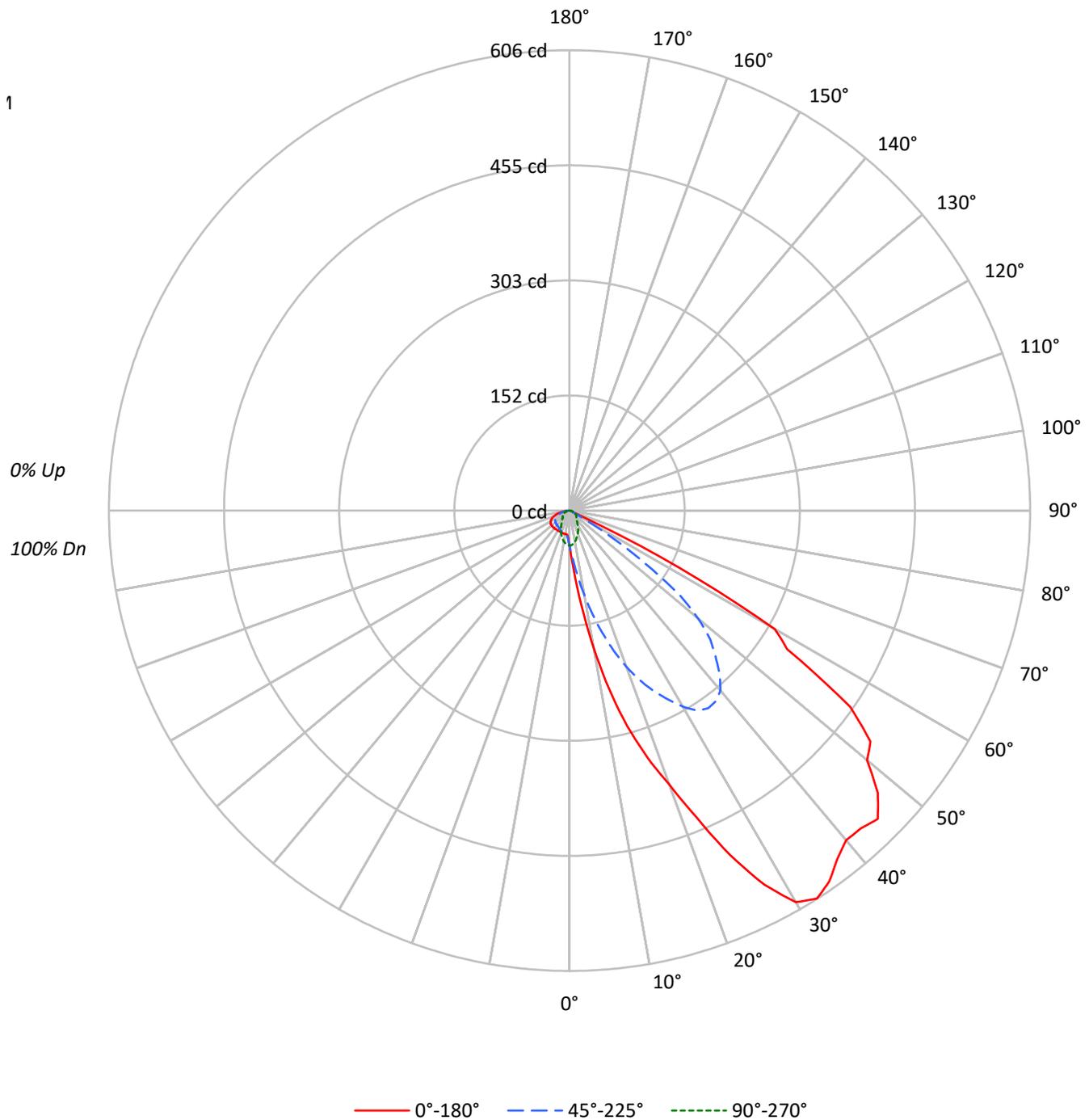
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 461.0 lumens
Efficiency: N/A
Efficacy: 64.0 lumens/watt
Spacing Criteria (0/90/45): 3.38 / 0.84 / 2.07
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

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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	110	106	102	99	108	104	100	97	100	97	94	96	93	91	92	90	89	89	89	89	87
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	79	76	76	76	76	74
3	92	82	74	68	90	81	73	68	78	72	67	75	70	65	72	68	64	64	64	64	62
4	84	72	64	58	82	71	63	57	69	62	56	66	60	56	64	59	55	55	55	55	53
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	47	47	47	45
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	41	41	41	39
7	65	51	42	36	63	50	42	36	49	41	36	47	41	36	46	40	35	35	35	35	33
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	31	31	31	29
9	55	42	33	28	54	41	33	28	40	33	28	39	32	27	38	32	27	27	27	27	25
10	52	38	30	25	50	38	30	25	37	29	24	36	29	24	35	29	24	24	24	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	7871	7871	7871	7871	7871
5°	15507	12102	7745	5861	5584
10°	32020	19709	7257	5351	5421
15°	52384	29580	6508	5385	5527
20°	70268	40082	5828	5370	5608
25°	95089	49768	5093	5340	5815
30°	118345	59242	4256	5330	6085
35°	125285	66774	3616	5466	6349
40°	127271	69425	3305	5643	6880
45°	139730	66126	3166	6016	7453
50°	136966	59293	3135	6404	8199
55°	135388	36362	3153	6906	9068
60°	107398	8646	3307	7371	9817
65°	6846	1549	3260	7498	10595
70°	1460	1712	3172	7805	11179
75°	1397	1664	2795	7519	11445
80°	1289	1686	2876	7438	10811
85°	790	1581	3359	6719	10671

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 15°
 Vertical Angle: 52.5°
 Luminance: 147479 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.7	1.2
10°-20°	28.7	6.2
20°-30°	66.7	14.5
30°-40°	103.6	22.5
40°-50°	118.1	25.6
50°-60°	99.5	21.6
60°-70°	28.9	6.3
70°-80°	7.4	1.6
80°-90°	2.5	0.5
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°	101.1	21.9
0°-40°	204.7	44.4
0°-60°	422.3	91.6
0°-90°	461.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	461.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	46	46	46	46	46	
5°	90	70	45	34	32	11
15°	294	166	36	30	31	85
25°	500	262	27	28	31	232
35°	596	318	17	26	30	370
45°	574	272	13	25	31	431
55°	451	121	10	23	30	379
65°	17	4	8	18	26	83
75°	2	2	4	11	17	2
85°	0	1	2	3	5	1
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
0°	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7
2.5°	61.6	61.2	61.2	60.8	60.3	59.9	58.7	58.2	55.7	50.7	45.7
5°	89.7	89.3	88.0	87.6	85.5	82.6	79.6	76.7	70.0	55.7	44.8
7.5°	129.9	130.7	129.9	125.3	122.4	117.8	109.0	102.7	89.3	60.8	43.2
10°	183.1	183.1	181.9	174.7	168.5	159.7	148.3	137.5	112.7	65.4	41.5
12.5°	241.0	242.2	235.9	230.1	218.7	207.9	192.3	176.0	139.5	69.1	39.4
15°	293.8	292.9	286.6	279.1	267.4	252.3	235.9	215.0	165.9	71.7	36.5
17.5°	340.7	339.0	333.6	325.2	310.9	294.2	273.2	250.6	193.2	73.8	34.4
20°	383.4	377.6	371.3	362.5	348.7	331.1	309.3	283.7	218.7	73.8	31.8
22.5°	437.5	431.6	422.8	409.4	391.0	369.2	343.6	314.7	241.4	72.1	29.3
25°	500.4	495.7	480.7	463.5	439.6	413.6	383.9	344.9	261.9	69.6	26.8
27.5°	555.2	550.2	535.1	510.0	481.1	450.1	418.6	378.8	279.9	65.0	23.9
30°	595.1	588.8	577.0	553.2	518.0	480.2	442.9	404.8	297.9	59.5	21.4
32.5°	605.5	604.7	595.9	578.3	546.9	505.4	461.0	419.5	312.2	52.4	19.3
35°	595.9	597.2	595.5	586.7	563.6	523.0	472.7	427.4	317.6	45.3	17.2
37.5°	578.3	580.0	582.9	584.2	569.5	533.5	479.4	430.8	316.4	38.1	15.9
40°	566.1	565.3	565.3	573.7	570.8	538.1	480.2	428.3	308.8	30.6	14.7
42.5°	567.4	558.2	551.9	565.3	569.5	536.0	474.8	421.6	292.5	23.5	13.4
45°	573.7	554.0	543.1	560.3	567.0	528.8	464.7	411.5	271.5	16.3	13.0
47.5°	550.2	537.2	535.6	559.9	562.4	516.7	449.2	395.6	251.4	11.3	12.2
50°	511.2	509.2	518.0	543.1	543.5	496.6	431.6	366.7	221.3	8.0	11.7
52.5°	499.1	500.4	508.3	521.3	509.2	462.6	399.8	342.4	183.1	6.3	11.3
55°	450.9	453.0	460.5	468.5	459.7	421.2	361.2	313.0	121.1	5.9	10.5
57.5°	339.4	344.9	358.7	365.8	366.7	343.2	327.3	269.9	68.3	5.9	10.1
60°	311.8	304.7	298.4	283.7	270.3	267.4	269.0	202.4	25.1	5.4	9.6
62.5°	163.0	159.7	169.3	175.6	177.3	186.5	174.3	106.9	5.4	5.4	8.8
65°	16.8	16.8	20.5	27.2	45.3	60.3	57.4	31.0	3.8	5.0	8.0
67.5°	5.0	5.0	5.0	5.9	7.5	7.5	6.3	4.6	3.8	4.6	7.1
70°	2.9	2.9	2.9	2.9	2.9	2.9	3.4	2.9	3.4	4.2	6.3
72.5°	2.5	2.5	2.5	2.5	2.9	2.9	2.9	2.9	2.9	3.8	5.4
75°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.5	2.5	2.9	4.2
77.5°	1.7	1.7	1.7	1.7	1.7	1.7	2.1	2.1	2.1	2.5	3.4
80°	1.3	1.3	1.3	1.3	1.3	1.7	1.7	1.7	1.7	2.1	2.9
82.5°	0.8	0.8	0.8	0.8	1.3	1.3	1.3	1.3	1.3	1.7	2.1
85°	0.4	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.3	1.7
87.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.8	0.8	1.3
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):

	112.5°	135°	157.5°	180°
0°	45.7	45.7	45.7	45.7
2.5°	41.5	38.6	36.9	36.0
5°	37.7	33.9	32.7	32.3
7.5°	34.4	31.8	31.4	31.4
10°	32.3	30.6	31.0	31.0
12.5°	31.0	30.6	31.0	31.4
15°	29.8	30.2	31.0	31.0
17.5°	28.9	29.8	30.6	31.0
20°	27.7	29.3	30.6	30.6
22.5°	26.8	28.9	30.2	30.6
25°	26.0	28.1	29.8	30.6
27.5°	24.7	27.7	29.8	30.2
30°	23.5	26.8	29.3	30.6
32.5°	22.2	26.4	29.3	30.2
35°	21.4	26.0	29.3	30.2
37.5°	20.5	25.6	29.3	30.6
40°	20.1	25.1	28.9	30.6
42.5°	19.3	25.1	28.9	30.6
45°	18.9	24.7	28.9	30.6
47.5°	18.4	24.3	28.9	30.6
50°	17.6	23.9	28.5	30.6
52.5°	17.2	23.5	28.5	30.6
55°	16.3	23.0	28.1	30.2
57.5°	15.9	22.2	27.7	29.3
60°	15.1	21.4	26.8	28.5
62.5°	13.8	20.1	25.6	27.7
65°	12.6	18.4	24.3	26.0
67.5°	11.3	17.2	22.6	24.3
70°	10.1	15.5	20.5	22.2
72.5°	8.8	13.4	18.4	19.7
75°	7.5	11.3	15.5	17.2
77.5°	5.9	9.2	13.0	14.2
80°	4.6	7.5	10.1	10.9
82.5°	3.8	5.4	7.5	8.0
85°	2.5	3.4	4.6	5.4
87.5°	1.3	1.7	2.1	2.5
90°	0.0	0.0	0.0	0.0

(END OF REPORT)