

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: P1319883

Luminaire Tested: LDSQA3D05R609840DE010 3LSQCA45R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1319883
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: LDSQA3D05R609840DE010 3LSQCA45R 1MW
Description: 3in Adjustable LED luminaire with, R60 optic, 4000K CCT AND, 98CRI , 3LSQCA45R 1MW TRIM
Light Source: -
Ballast/Driver: -

Summary

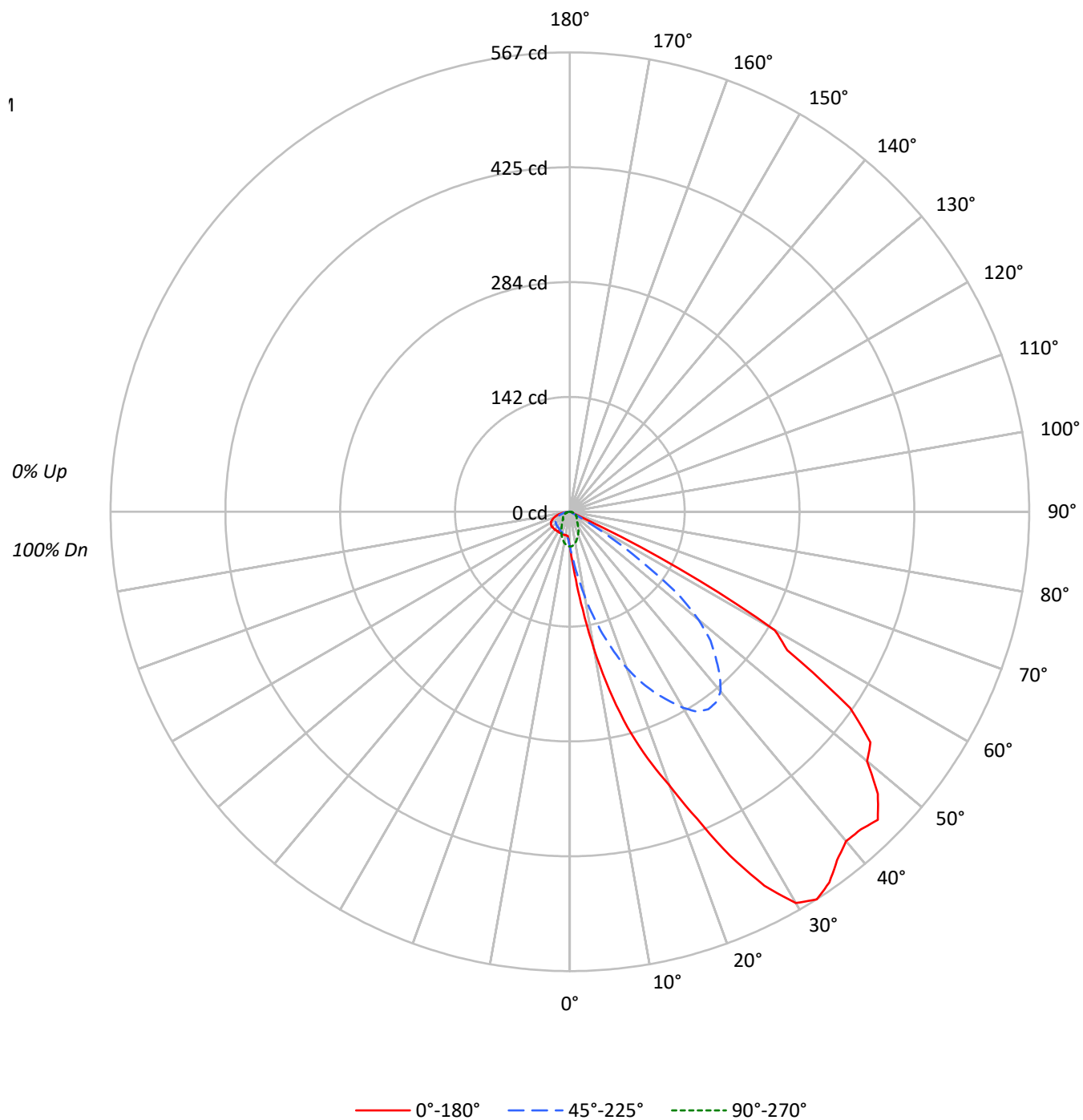
Lumens per Lamp: N/A
Luminaire Lumens: 432.0 lumens
Efficiency: N/A
Efficacy: 60.0 lumens/watt
Spacing Criteria (0/90/45): 3.38 / 0.84 / 2.07
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 7.2
Input Voltage (V): NR
Input Current (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
RC	80				70					50					30					10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	110	106	102	99	108	104	100	97	100	97	94	96	93	91	92	90	89	87		
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	79	76	74		
3	92	82	74	68	90	81	73	68	78	72	67	75	70	65	72	68	64	62		
4	84	72	64	58	82	71	63	57	69	62	56	66	60	56	64	59	55	53		
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45		
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	39		
7	65	51	42	36	63	50	42	36	49	41	36	47	41	36	46	40	35	33		
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29		
9	55	42	33	28	54	41	33	28	40	33	28	39	32	27	38	32	27	25		
10	52	38	30	25	50	38	30	25	37	29	24	36	29	24	35	29	24	22		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	7371	7371	7371	7371	7371
5°	14522	11341	7261	5498	5221
10°	30009	18467	6803	5019	5089
15°	49085	27725	6098	5046	5188
20°	65851	37571	5462	5040	5260
25°	89104	46633	4770	4998	5454
30°	110887	55523	3977	4992	5707
35°	117401	62590	3385	5109	5950
40°	119267	65063	3080	5306	6452
45°	130938	61986	2971	5651	6990
50°	128366	55542	2947	6002	7690
55°	126860	34080	2943	6486	8497
60°	100647	8129	3100	6889	9197
65°	6398	1426	3056	7050	9903
70°	1360	1561	2971	7301	10474
75°	1331	1597	2595	7053	10713
80°	1190	1587	2678	7042	10116
85°	790	1581	3162	6126	10078

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 15°

Vertical Angle: 52.5°

Luminance: 138200 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.3	1.2
10°-20°	26.9	6.2
20°-30°	62.5	14.5
30°-40°	97.1	22.5
40°-50°	110.7	25.6
50°-60°	93.2	21.6
60°-70°	27.0	6.3
70°-80°	6.9	1.6
80°-90°	2.4	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°	94.7	21.9
0°-40°	191.9	44.4
0°-60°	395.7	91.6
0°-90°	432.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	432.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	43	43	43	43	43	
5°	84	66	42	32	30	11
15°	275	156	34	28	29	80
25°	469	245	25	26	29	218
35°	558	298	16	24	28	347
45°	538	254	12	23	29	404
55°	422	114	10	22	28	356
65°	16	4	8	17	24	78
75°	2	2	4	11	16	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°	42.8	42.8	42.8	42.8	42.8	42.8	42.8	42.8	42.8	42.8	42.8
2.5°	57.7	57.3	57.3	56.9	56.5	56.2	55.0	54.6	52.2	47.5	42.8
5°	84.0	83.6	82.5	82.1	80.1	77.4	74.6	71.9	65.6	52.2	42.0
7.5°	121.7	122.5	121.7	117.4	114.7	110.3	102.1	96.2	83.6	56.9	40.4
10°	171.6	171.6	170.4	163.8	157.9	149.6	139.0	128.8	105.6	61.3	38.9
12.5°	225.8	227.0	221.1	215.6	205.0	194.8	180.2	164.9	130.8	64.8	36.9
15°	275.3	274.5	268.6	261.5	250.5	236.4	221.1	201.5	155.5	67.2	34.2
17.5°	319.3	317.7	312.6	304.7	291.4	275.7	256.0	234.8	181.0	69.1	32.2
20°	359.3	353.8	347.9	339.7	326.7	310.2	289.8	265.9	205.0	69.1	29.8
22.5°	410.0	404.5	396.2	383.7	366.4	346.0	322.0	294.9	226.2	67.5	27.5
25°	468.9	464.6	450.4	434.3	411.9	387.6	359.7	323.2	245.4	65.2	25.1
27.5°	520.3	515.6	501.5	477.9	450.8	421.8	392.3	355.0	262.3	60.9	22.4
30°	557.6	551.7	540.7	518.4	485.4	450.0	415.1	379.3	279.2	55.8	20.0
32.5°	567.4	566.7	558.4	541.9	512.5	473.6	432.0	393.1	292.6	49.1	18.1
35°	558.4	559.6	558.0	549.8	528.2	490.1	443.0	400.5	297.7	42.4	16.1
37.5°	541.9	543.5	546.2	547.4	533.7	499.9	449.2	403.7	296.5	35.7	14.9
40°	530.5	529.7	529.7	537.6	534.8	504.2	450.0	401.3	289.4	28.7	13.7
42.5°	531.7	523.1	517.2	529.7	533.7	502.3	444.9	395.0	274.1	22.0	12.6
45°	537.6	519.1	508.9	525.0	531.3	495.6	435.5	385.6	254.5	15.3	12.2
47.5°	515.6	503.4	501.9	524.6	527.0	484.2	421.0	370.7	235.6	10.6	11.4
50°	479.1	477.1	485.4	508.9	509.3	465.3	404.5	343.6	207.3	7.5	11.0
52.5°	467.7	468.9	476.3	488.5	477.1	433.5	374.6	320.8	171.6	5.9	10.6
55°	422.5	424.5	431.6	439.0	430.8	394.7	338.5	293.3	113.5	5.5	9.8
57.5°	318.1	323.2	336.1	342.8	343.6	321.6	306.7	252.9	64.0	5.5	9.4
60°	292.2	285.5	279.6	265.9	253.3	250.5	252.1	189.7	23.6	5.1	9.0
62.5°	152.8	149.6	158.6	164.5	166.1	174.7	163.4	100.1	5.1	5.1	8.2
65°	15.7	15.7	19.2	25.5	42.4	56.5	53.8	29.1	3.5	4.7	7.5
67.5°	4.7	4.7	4.7	5.5	7.1	7.1	5.9	4.3	3.5	4.3	6.7
70°	2.7	2.7	2.7	2.7	2.7	2.7	3.1	2.7	3.1	3.9	5.9
72.5°	2.4	2.4	2.4	2.4	2.7	2.7	2.7	2.7	2.7	3.5	5.1
75°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.4	2.4	2.7	3.9
77.5°	1.6	1.6	1.6	1.6	1.6	1.6	2.0	2.0	2.0	2.4	3.1
80°	1.2	1.2	1.2	1.2	1.2	1.6	1.6	1.6	1.6	2.0	2.7
82.5°	0.8	0.8	0.8	0.8	1.2	1.2	1.2	1.2	1.2	1.6	2.0
85°	0.4	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.2	1.6
87.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.8	0.8	1.2
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):

	112.5°	135°	157.5°	180°
0°	42.8	42.8	42.8	42.8
2.5°	38.9	36.1	34.6	33.8
5°	35.3	31.8	30.6	30.2
7.5°	32.2	29.8	29.5	29.5
10°	30.2	28.7	29.1	29.1
12.5°	29.1	28.7	29.1	29.5
15°	27.9	28.3	29.1	29.1
17.5°	27.1	27.9	28.7	29.1
20°	25.9	27.5	28.7	28.7
22.5°	25.1	27.1	28.3	28.7
25°	24.3	26.3	27.9	28.7
27.5°	23.2	25.9	27.9	28.3
30°	22.0	25.1	27.5	28.7
32.5°	20.8	24.7	27.5	28.3
35°	20.0	24.3	27.5	28.3
37.5°	19.2	24.0	27.5	28.7
40°	18.8	23.6	27.1	28.7
42.5°	18.1	23.6	27.1	28.7
45°	17.7	23.2	27.1	28.7
47.5°	17.3	22.8	27.1	28.7
50°	16.5	22.4	26.7	28.7
52.5°	16.1	22.0	26.7	28.7
55°	15.3	21.6	26.3	28.3
57.5°	14.9	20.8	25.9	27.5
60°	14.1	20.0	25.1	26.7
62.5°	13.0	18.8	24.0	25.9
65°	11.8	17.3	22.8	24.3
67.5°	10.6	16.1	21.2	22.8
70°	9.4	14.5	19.2	20.8
72.5°	8.2	12.6	17.3	18.5
75°	7.1	10.6	14.5	16.1
77.5°	5.5	8.6	12.2	13.4
80°	4.3	7.1	9.4	10.2
82.5°	3.5	5.1	7.1	7.5
85°	2.4	3.1	4.3	5.1
87.5°	1.2	1.6	2.0	2.4
90°	0.0	0.0	0.0	0.0

(END OF REPORT)