

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: P1319865

Luminaire Tested: LDSQA3D05R509840DE010 3LSQCA45R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1319865
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-79)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D05R509840DE010 3LSQCA45R 1MW
Description: 3in Adjustable LED luminaire with, R50 optic, 4000K CCT AND, 98CRI , 3LSQCA45R 1MW TRIM
Light Source: -
Ballast/Driver: -

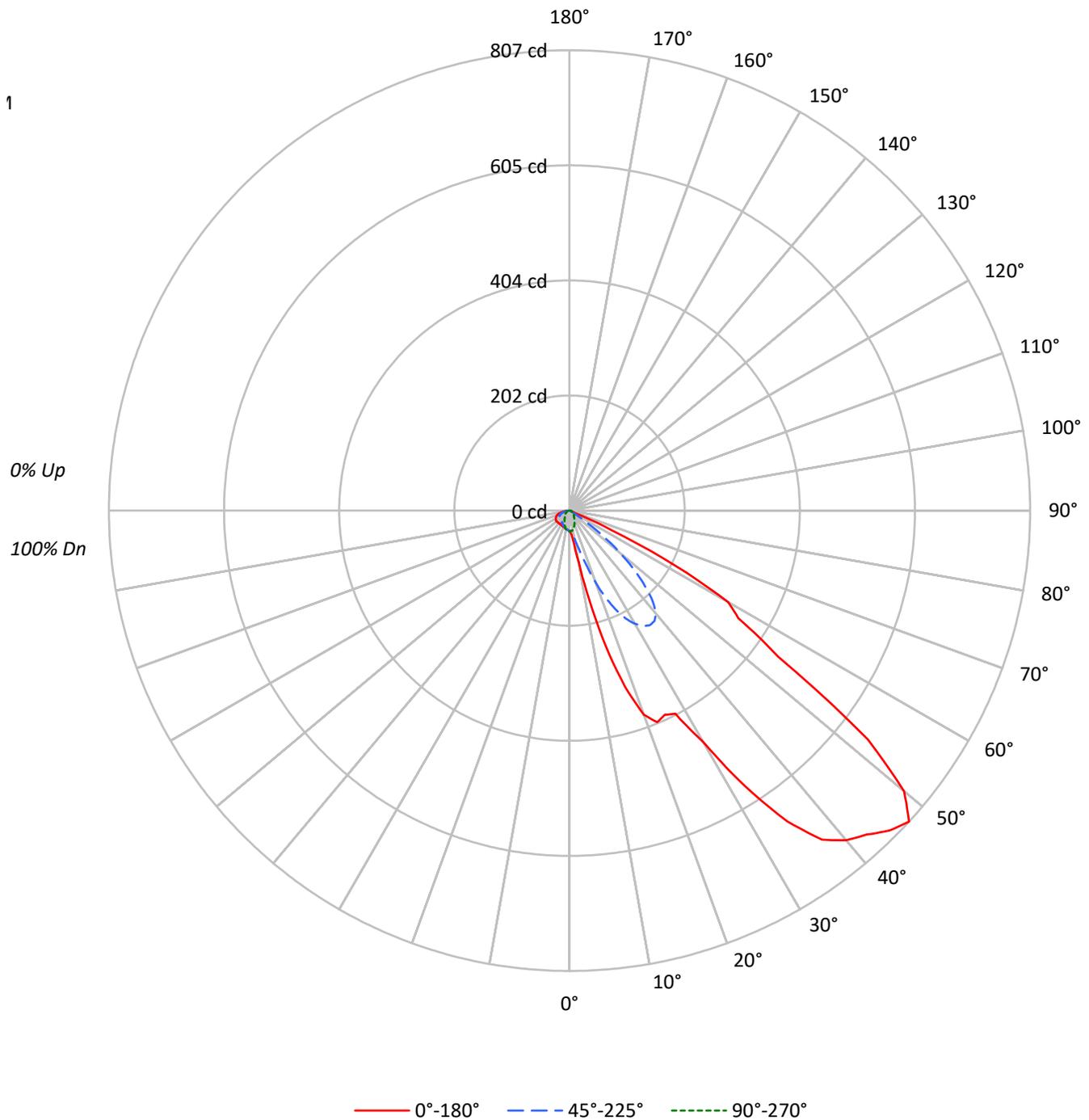
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 455.0 lumens
Efficiency: N/A
Efficacy: 63.2 lumens/watt
Spacing Criteria (0/90/45): 3.58 / 0.82 / 1.91
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	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	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86			86	
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73			73	
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	61			61	
4	83	71	63	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51			51	
5	76	63	54	47	74	62	53	47	60	52	46	58	51	46	56	50	45	43			43	
6	69	56	47	40	67	55	46	40	53	45	39	51	44	39	50	43	39	37			37	
7	63	50	41	34	62	49	40	34	47	39	34	46	39	34	44	38	33	31			31	
8	58	44	36	30	57	44	35	29	42	35	29	41	34	29	40	34	29	27			27	
9	54	40	31	26	53	39	31	26	38	31	25	37	30	25	36	30	25	23			23	
10	50	36	28	23	49	36	28	22	35	27	22	34	27	22	33	27	22	20			20	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	6234	6234	6234	6234	6234
5°	7399	6933	6189	5913	5843
10°	15949	8587	5911	5701	5771
15°	44147	14086	5331	5474	5670
20°	69791	24706	4619	5260	5553
25°	75061	36295	3953	5074	5606
30°	93169	45560	3440	5011	5787
35°	139813	51552	2964	5046	6118
40°	169560	53013	2653	5216	6452
45°	193167	45473	2582	5553	7088
50°	205021	31375	2626	6002	7904
55°	133946	12641	2582	6486	8738
60°	110464	2170	2583	7027	9610
65°	33294	1141	2404	7539	10555
70°	1410	1209	2367	7704	11481
75°	1331	1331	2329	7852	12576
80°	1190	1190	2380	7835	12893
85°	790	1581	3162	7707	12449

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 47.5°
 Luminance: 205671 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.8	0.8
10°-20°	21.5	4.7
20°-30°	55.4	12.2
30°-40°	99.5	21.9
40°-50°	132.9	29.2
50°-60°	101.2	22.2
60°-70°	30.7	6.8
70°-80°	7.4	1.6
80°-90°	2.7	0.6
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
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0°-30°	80.7	17.7
0°-40°	180.2	39.6
0°-60°	414.3	91.0
0°-90°	455.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	455.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	36	36	36	36	36	
5°	43	40	36	34	34	6
15°	248	79	30	31	32	73
25°	395	191	21	27	30	188
35°	665	245	14	24	29	408
45°	793	187	11	23	29	606
55°	446	42	9	22	29	444
65°	82	3	6	18	26	113
75°	2	2	4	12	19	2
85°	0	1	2	4	6	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°	36.2	36.2	36.2	36.2	36.2	36.2	36.2	36.2	36.2	36.2	36.2
2.5°	38.5	38.5	38.5	38.5	38.5	38.5	38.1	38.1	38.1	37.3	36.5
5°	42.8	43.2	42.8	42.8	42.1	42.1	41.3	41.3	40.1	37.7	35.8
7.5°	56.2	55.8	55.4	53.8	52.7	49.9	48.7	46.8	43.2	37.7	35.0
10°	91.2	88.8	87.2	83.7	76.2	71.5	65.2	59.0	49.1	37.7	33.8
12.5°	158.4	158.0	153.3	141.5	130.9	116.3	101.0	85.7	60.5	36.9	32.2
15°	247.6	244.1	237.4	223.6	204.8	182.0	154.4	127.3	79.0	35.8	29.9
17.5°	323.8	319.5	314.4	300.6	279.0	250.3	217.3	180.0	104.1	34.2	27.5
20°	380.8	378.1	373.7	362.7	342.3	316.4	279.4	234.2	134.8	32.2	25.2
22.5°	401.6	401.3	402.0	398.1	387.9	367.5	332.1	284.9	165.1	29.9	22.8
25°	395.0	394.6	399.7	404.8	407.1	398.9	371.8	325.8	191.0	27.9	20.8
27.5°	401.3	400.1	397.7	398.5	405.2	409.9	397.3	357.2	213.4	25.2	18.9
30°	468.5	461.8	451.2	433.1	419.7	418.5	413.0	382.0	229.1	22.4	17.3
32.5°	573.4	565.1	545.9	512.5	480.6	456.3	439.0	402.8	240.1	19.7	15.3
35°	665.0	659.1	636.7	603.7	558.1	512.5	481.0	433.5	245.2	17.3	14.1
37.5°	727.1	724.7	702.7	667.3	620.9	567.1	525.4	464.9	244.1	14.5	13.0
40°	754.2	747.1	728.6	698.8	652.0	603.7	559.6	485.0	235.8	11.8	11.8
42.5°	770.3	762.4	742.4	714.1	668.1	616.6	563.6	476.3	216.2	9.4	11.4
45°	793.1	784.8	758.5	728.2	681.9	622.1	548.2	445.7	186.7	7.1	10.6
47.5°	806.8	801.3	781.7	751.4	695.2	614.3	512.9	417.0	154.1	5.5	10.2
50°	765.2	759.7	745.1	724.3	686.6	587.9	481.8	370.6	117.1	4.3	9.8
52.5°	658.7	663.4	666.1	672.0	644.5	529.0	435.4	333.7	79.0	3.5	9.0
55°	446.1	453.1	461.0	484.6	516.8	470.8	386.7	288.5	42.1	3.5	8.6
57.5°	350.6	348.2	345.8	344.3	369.4	388.3	339.9	230.7	18.1	3.5	7.9
60°	320.7	313.6	308.9	310.1	322.7	315.2	269.2	150.5	6.3	3.5	7.5
62.5°	210.3	215.8	226.4	244.4	235.8	202.4	156.4	59.7	3.1	3.5	6.7
65°	81.7	79.0	81.7	86.9	75.1	55.8	35.0	10.6	2.8	3.1	5.9
67.5°	11.0	9.8	7.5	4.7	4.3	3.9	3.1	2.8	2.8	3.1	5.5
70°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.4	2.4	2.8	4.7
72.5°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.8	3.9
75°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.4	3.5
77.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	2.0	2.8
80°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.6	2.4
82.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.2	1.2	1.6	2.0
85°	0.4	0.8	0.4	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	1.2	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°	36.2	36.2	36.2	36.2
2.5°	35.8	35.0	35.0	35.0
5°	35.0	34.2	34.2	33.8
7.5°	33.8	33.4	33.4	33.4
10°	33.0	32.6	33.0	33.0
12.5°	31.4	31.8	32.2	32.2
15°	29.9	30.7	31.4	31.8
17.5°	28.3	29.9	30.7	31.0
20°	26.7	28.7	29.9	30.3
22.5°	25.5	27.5	29.1	29.9
25°	24.0	26.7	28.7	29.5
27.5°	22.4	25.5	27.9	29.1
30°	21.2	25.2	27.9	29.1
32.5°	20.0	24.4	27.5	28.7
35°	19.3	24.0	27.5	29.1
37.5°	18.5	23.6	27.5	28.7
40°	18.1	23.2	27.5	28.7
42.5°	17.7	23.2	27.5	29.1
45°	16.9	22.8	27.5	29.1
47.5°	16.5	22.8	27.5	29.1
50°	16.1	22.4	27.5	29.5
52.5°	15.7	22.0	27.5	29.5
55°	14.9	21.6	27.1	29.1
57.5°	14.5	21.2	26.7	28.3
60°	13.8	20.4	25.9	27.9
62.5°	13.0	19.7	25.2	26.7
65°	11.8	18.5	24.0	25.9
67.5°	10.6	16.9	22.8	24.8
70°	9.4	15.3	21.2	22.8
72.5°	8.3	13.8	19.7	20.8
75°	7.1	11.8	17.3	18.9
77.5°	5.9	10.2	14.5	15.7
80°	4.3	7.9	11.8	13.0
82.5°	3.5	5.9	8.6	9.4
85°	2.4	3.9	5.5	6.3
87.5°	1.2	2.0	2.8	3.1
90°	0.0	0.0	0.0	0.0

(END OF REPORT)