

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: P1325600

Luminaire Tested: LDSQA3D05R70W2N902750DE010 3LSQCA45R 1MB_5000K

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1325600
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-83)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D05R70W2N902750DE010 3LSQCA45R 1MB_5000K
Description: 3in Adjustable Tunable White LED luminaire with, R70 optic, 5000K CCT AND, 90CRI ,
3LSQCA45R 1MB TRIM
Light Source: -
Ballast/Driver: -

Summary

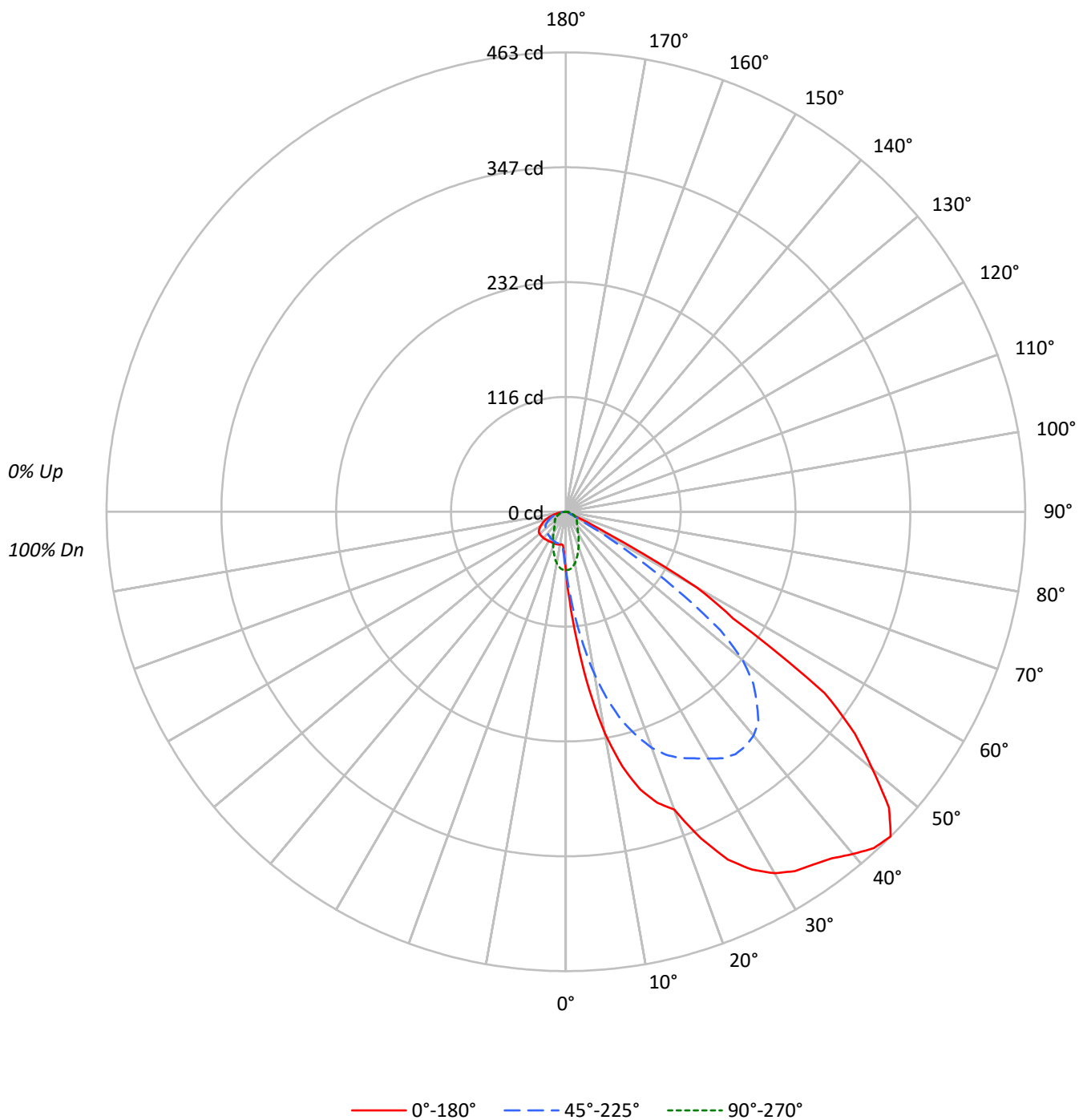
Lumens per Lamp: N/A
Luminaire Lumens: 400.0 lumens
Efficiency: N/A
Efficacy: 67.8 lumens/watt
Spacing Criteria (0/90/45): 2.92 / 0.77 / 2.03
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 5.9
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
RCR																			
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100
1	110	106	103	99	108	104	101	98	100	97	95	96	94	92	93	91	89	87	87
2	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	79	77	75	75
3	93	83	76	70	90	82	75	69	79	73	68	76	71	67	74	69	66	64	64
4	85	74	66	59	83	72	65	59	70	63	58	68	62	57	66	61	57	54	54
5	78	66	57	51	76	65	57	51	63	55	50	61	54	49	59	53	49	47	47
6	72	59	50	44	70	58	50	44	56	49	43	54	48	43	53	47	43	41	41
7	66	53	44	38	65	52	44	38	51	43	38	49	43	38	48	42	37	35	35
8	61	48	40	34	60	47	39	34	46	39	33	45	38	33	44	38	33	31	31
9	57	44	35	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28	28
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	37	31	26	25	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	10041	10041	10041	10041	10041
5°	22838	18291	9941	6276	5861
10°	39575	29030	9216	5719	5858
15°	51653	38780	8041	5830	6044
20°	58520	46369	6873	5920	6286
25°	73483	52029	5758	5986	6442
30°	83643	57134	4912	6105	6821
35°	91288	62674	4289	6202	7211
40°	101214	66210	3957	6452	7801
45°	112744	66297	3897	6795	8452
50°	108003	62348	3858	7154	9190
55°	95633	40385	3963	7537	9939
60°	52356	8646	3996	7681	10299
65°	3749	2119	3912	7661	10392
70°	1813	2014	3626	7251	10071
75°	1597	2129	3460	6920	9316
80°	1587	1984	3174	6347	8728
85°	1581	2371	3162	5533	7904

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 112744 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.6	1.9
10°-20°	32.5	8.1
20°-30°	62.4	15.6
30°-40°	88.2	22.0
40°-50°	99.8	24.9
50°-60°	79.0	19.8
60°-70°	21.3	5.3
70°-80°	7.1	1.8
80°-90°	2.2	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°	102.5	25.6
0°-40°	190.7	47.7
0°-60°	369.4	92.4
0°-90°	400.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	400.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	58	58	58	58	58	
5°	132	106	58	36	34	16
15°	290	218	45	33	34	82
25°	387	274	30	32	34	177
35°	434	298	20	30	34	273
45°	463	272	16	28	35	346
55°	318	134	13	25	33	258
65°	9	5	10	19	26	33
75°	2	3	5	10	14	3
85°	1	1	2	3	4	1
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	45°	67.5°	90°	112.5°
0°	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3
2.5°	90.6	90.6	90.2	88.6	87.8	85.8	84.2	79.8	69.0	58.7	50.3
5°	132.1	134.1	131.3	130.9	128.5	124.9	122.5	105.8	79.8	57.5	43.1
7.5°	181.2	182.0	181.2	177.2	173.6	167.6	162.0	135.7	90.6	55.5	37.9
10°	226.3	225.1	222.7	219.9	214.7	208.3	198.7	166.0	101.0	52.7	34.7
12.5°	263.0	262.6	259.8	257.0	250.6	242.2	232.7	193.6	109.7	49.1	33.1
15°	289.7	289.7	286.9	283.7	277.8	271.0	260.2	217.5	116.9	45.1	31.5
17.5°	307.7	306.9	304.9	302.5	297.7	290.9	282.5	236.7	121.7	41.1	31.1
20°	319.3	318.9	317.3	313.7	309.7	304.5	296.9	253.0	123.7	37.5	30.7
22.5°	356.4	353.2	347.2	339.6	330.0	317.7	307.3	265.4	122.9	33.5	29.9
25°	386.7	385.5	379.1	369.9	357.2	341.2	324.1	273.8	118.9	30.3	29.1
27.5°	406.7	404.7	398.7	388.7	375.1	359.6	343.6	280.2	113.3	27.5	27.9
30°	420.6	419.4	413.4	402.3	388.3	371.1	354.8	287.3	105.8	24.7	26.7
32.5°	429.4	428.2	422.2	412.3	398.7	380.7	362.0	294.5	96.6	22.3	25.5
35°	434.2	433.0	426.2	417.4	404.7	387.1	367.2	298.1	85.4	20.4	24.3
37.5°	440.2	437.8	428.6	417.8	405.1	388.7	368.8	297.7	74.2	18.8	23.5
40°	450.2	443.8	430.6	416.2	403.1	386.7	367.6	294.5	61.9	17.6	22.7
42.5°	459.7	450.6	431.0	413.8	399.1	383.1	363.2	287.3	48.3	16.8	22.3
45°	462.9	449.4	425.4	408.3	394.3	377.9	357.2	272.2	32.7	16.0	21.6
47.5°	441.8	431.8	411.9	399.1	385.9	369.9	348.4	256.2	18.8	15.2	20.8
50°	403.1	396.7	385.5	377.5	370.3	359.2	338.0	232.7	11.2	14.4	20.0
52.5°	367.2	365.2	357.2	350.8	346.8	341.6	322.5	196.3	9.2	14.0	19.2
55°	318.5	312.1	310.1	307.7	316.1	315.7	289.7	134.5	8.8	13.2	18.4
57.5°	199.9	202.7	213.1	232.3	255.0	268.2	267.4	71.8	8.4	12.4	17.2
60°	152.0	151.7	154.8	162.8	179.6	198.3	215.9	25.1	8.0	11.6	16.4
62.5°	45.5	46.7	56.3	82.6	99.0	122.1	111.3	6.0	7.6	10.4	14.8
65°	9.2	9.6	9.6	10.8	13.2	20.0	24.3	5.2	7.2	9.6	13.6
67.5°	4.0	4.0	4.0	4.4	4.4	5.2	4.4	4.8	6.4	8.4	12.0
70°	3.6	3.6	3.6	3.6	3.6	3.6	4.0	4.0	5.6	7.2	10.4
72.5°	2.8	2.8	2.8	3.2	3.2	3.2	3.2	3.6	4.8	6.0	8.8
75°	2.4	2.4	2.4	2.4	2.8	2.8	2.8	3.2	4.0	5.2	7.2
77.5°	2.0	2.0	2.0	2.0	2.0	2.4	2.4	2.4	3.2	4.0	6.0
80°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	2.0	2.4	3.2	4.4
82.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.6	2.0	2.4	3.2
85°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.2	1.2	1.6	2.0
87.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.8	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):

	135°	157.5°	180°
0°	58.3	58.3	58.3
2.5°	44.3	41.9	40.7
5°	36.3	34.3	33.9
7.5°	33.5	33.1	33.1
10°	32.7	33.1	33.5
12.5°	32.7	33.5	33.9
15°	32.7	33.5	33.9
17.5°	32.7	33.5	33.9
20°	32.3	33.5	34.3
22.5°	31.9	33.5	33.9
25°	31.5	33.5	33.9
27.5°	31.1	33.1	33.9
30°	30.7	33.1	34.3
32.5°	29.9	33.1	34.3
35°	29.5	33.1	34.3
37.5°	29.1	33.1	34.7
40°	28.7	33.1	34.7
42.5°	28.3	33.1	34.7
45°	27.9	32.7	34.7
47.5°	27.1	32.7	34.7
50°	26.7	32.3	34.3
52.5°	25.9	31.9	34.3
55°	25.1	31.1	33.1
57.5°	23.9	29.9	31.5
60°	22.3	28.3	29.9
62.5°	20.4	26.3	27.5
65°	18.8	23.9	25.5
67.5°	16.4	21.2	22.7
70°	14.4	18.4	20.0
72.5°	12.4	15.6	17.2
75°	10.4	12.8	14.0
77.5°	8.0	10.4	11.2
80°	6.4	8.0	8.8
82.5°	4.4	5.6	6.0
85°	2.8	3.6	4.0
87.5°	1.2	1.6	1.6
90°	0.0	0.0	0.0

(END OF REPORT)