

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: P1319020

Luminaire Tested: LDSQA3D05R709835DE010 3LSQCA45R 1MW

Issue Date: 1/29/2026

**Test Information**

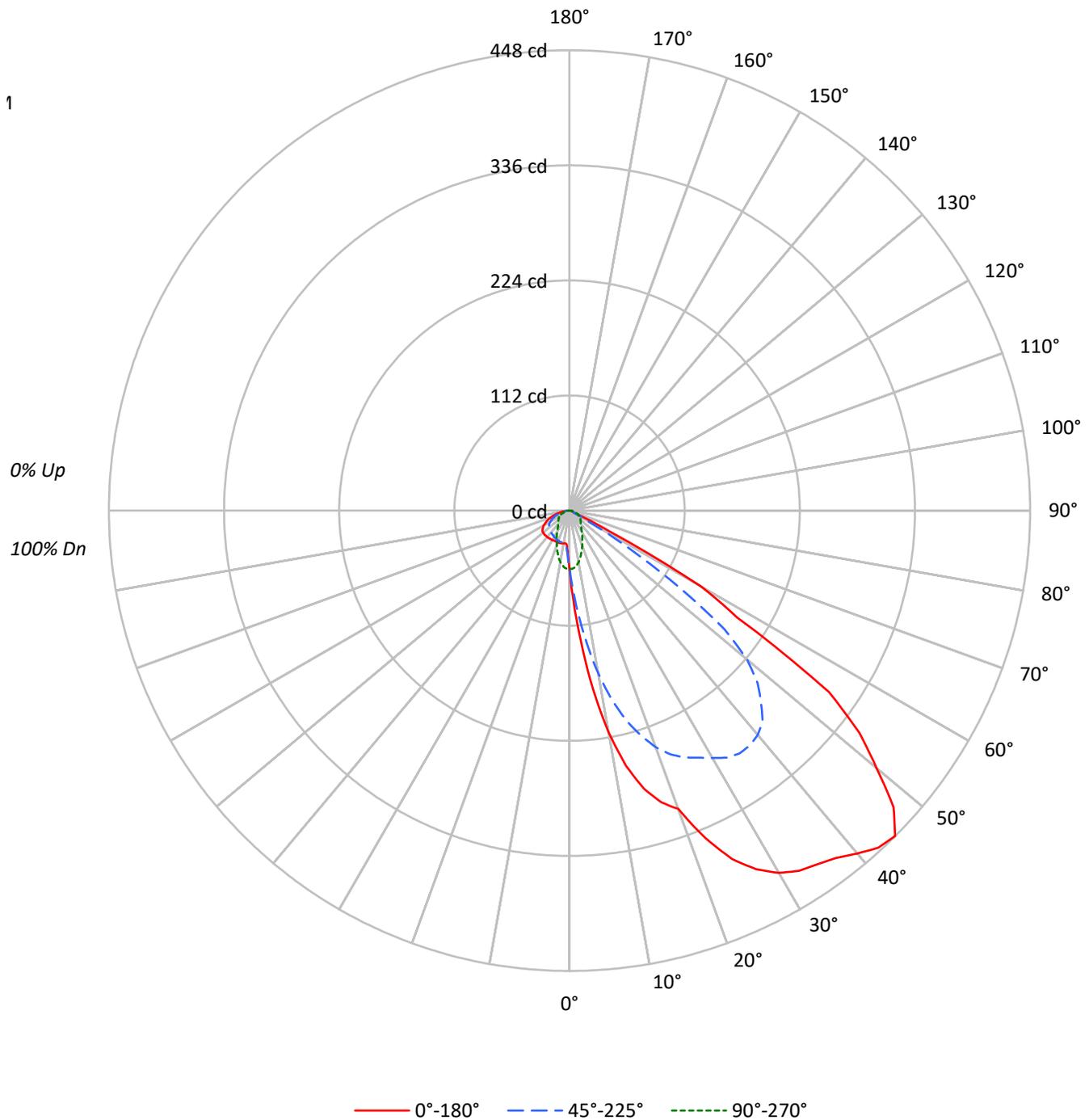
Test Method: LM-79-2019  
Report Number: P1319020  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-83)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D05R709835DE010 3LSQCA45R 1MW  
Description: 3in Adjustable LED luminaire with, R70 optic, 3500K CCT AND, 98CRI , 3LSQCA45R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 387.0 lumens  
Efficiency: N/A  
Efficacy: 53.7 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): 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	102	102	102	100
1	110	106	103	99	108	104	101	98	100	97	95	96	94	92	93	91	89	89	89	89	87
2	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	79	77	77	77	77	75
3	93	83	76	70	90	82	75	69	79	73	68	76	71	67	74	69	66	66	66	66	64
4	85	74	66	59	83	72	65	59	70	63	58	68	62	57	66	61	57	57	57	57	54
5	78	66	57	51	76	65	57	51	63	55	50	61	54	49	59	53	49	49	49	49	47
6	72	59	50	44	70	58	50	44	56	49	43	54	48	43	53	47	43	43	43	43	41
7	66	53	44	38	65	52	44	38	51	43	38	49	43	38	48	42	37	37	37	37	35
8	61	48	40	34	60	47	39	34	46	39	33	45	38	33	44	38	33	33	33	33	31
9	57	44	35	30	56	43	35	30	42	35	30	41	34	30	40	34	29	29	29	29	28
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	37	31	26	26	26	26	25

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°	135°	180°
0°	9713	9713	9713	9713	9713
5°	22094	17686	9612	6068	5670
10°	38281	28086	8919	5544	5666
15°	49977	37514	7774	5652	5848
20°	56614	44866	6653	5737	6085
25°	71089	50338	5568	5796	6233
30°	80938	55285	4753	5906	6602
35°	88324	60635	4142	6013	6980
40°	97909	64051	3822	6250	7554
45°	109090	64129	3751	6576	8184
50°	104493	60311	3724	6939	8895
55°	92510	39064	3813	7296	9608
60°	50668	8370	3858	7440	9989
65°	3627	2038	3790	7376	10066
70°	1762	1964	3474	6999	9718
75°	1530	2063	3327	6654	8983
80°	1488	1884	3075	6149	8430
85°	1581	2371	2964	5335	7707

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 109090 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	7.4	1.9
10°-20°	31.5	8.1
20°-30°	60.3	15.6
30°-40°	85.3	22.0
40°-50°	96.5	24.9
50°-60°	76.4	19.8
60°-70°	20.6	5.3
70°-80°	6.8	1.8
80°-90°	2.1	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°	99.1	25.6
0°-40°	184.5	47.7
0°-60°	357.4	92.4
0°-90°	387.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	387.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	56	56	56	56	56	
5°	128	102	56	35	33	15
15°	280	210	44	32	33	79
25°	374	265	29	30	33	171
35°	420	288	20	29	33	265
45°	448	263	15	27	34	335
55°	308	130	13	24	32	250
65°	9	5	9	18	25	32
75°	2	3	5	10	14	2
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°	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4
2.5°	87.6	87.6	87.3	85.7	84.9	83.0	81.5	77.2	66.8	56.8	48.6
5°	127.8	129.7	127.0	126.6	124.3	120.9	118.5	102.3	77.2	55.6	41.7
7.5°	175.3	176.1	175.3	171.4	168.0	162.2	156.8	131.3	87.6	53.7	36.7
10°	218.9	217.8	215.4	212.7	207.7	201.5	192.3	160.6	97.7	51.0	33.6
12.5°	254.4	254.1	251.4	248.7	242.5	234.4	225.1	187.3	106.2	47.5	32.0
15°	280.3	280.3	277.6	274.5	268.7	262.2	251.7	210.4	113.1	43.6	30.5
17.5°	297.7	296.9	295.0	292.7	288.0	281.5	273.4	229.0	117.8	39.8	30.1
20°	308.9	308.5	307.0	303.5	299.6	294.6	287.3	244.8	119.7	36.3	29.7
22.5°	344.8	341.7	335.9	328.6	319.3	307.3	297.3	256.8	118.9	32.4	29.0
25°	374.1	373.0	366.8	357.9	345.6	330.1	313.5	264.9	115.1	29.3	28.2
27.5°	393.4	391.5	385.7	376.1	362.9	347.9	332.4	271.0	109.7	26.6	27.0
30°	407.0	405.8	400.0	389.2	375.7	359.1	343.3	278.0	102.3	23.9	25.9
32.5°	415.5	414.3	408.5	398.9	385.7	368.3	350.2	284.9	93.4	21.6	24.7
35°	420.1	418.9	412.4	403.9	391.5	374.5	355.2	288.4	82.6	19.7	23.6
37.5°	425.9	423.6	414.7	404.3	391.9	376.1	356.8	288.0	71.8	18.1	22.8
40°	435.5	429.4	416.6	402.7	390.0	374.1	355.6	284.9	59.8	17.0	22.0
42.5°	444.8	435.9	417.0	400.4	386.1	370.7	351.4	278.0	46.7	16.2	21.6
45°	447.9	434.8	411.6	395.0	381.5	365.6	345.6	263.3	31.7	15.4	20.8
47.5°	427.4	417.8	398.5	386.1	373.4	357.9	337.1	247.9	18.1	14.7	20.1
50°	390.0	383.8	373.0	365.3	358.3	347.5	327.0	225.1	10.8	13.9	19.3
52.5°	355.2	353.3	345.6	339.4	335.5	330.5	312.0	190.0	8.9	13.5	18.5
55°	308.1	301.9	300.0	297.7	305.8	305.4	280.3	130.1	8.5	12.7	17.8
57.5°	193.4	196.1	206.2	224.7	246.7	259.5	258.7	69.5	8.1	12.0	16.6
60°	147.1	146.7	149.8	157.5	173.7	191.9	208.9	24.3	7.7	11.2	15.8
62.5°	44.0	45.2	54.4	79.9	95.8	118.1	107.7	5.8	7.3	10.0	14.3
65°	8.9	9.3	9.3	10.4	12.7	19.3	23.6	5.0	6.9	9.3	13.1
67.5°	3.9	3.9	3.9	4.2	4.2	5.0	4.2	4.6	6.2	8.1	11.6
70°	3.5	3.5	3.5	3.5	3.5	3.5	3.9	3.9	5.4	6.9	10.0
72.5°	2.7	2.7	2.7	3.1	3.1	3.1	3.1	3.5	4.6	5.8	8.5
75°	2.3	2.3	2.3	2.3	2.7	2.7	2.7	3.1	3.9	5.0	6.9
77.5°	1.9	1.9	1.9	1.9	1.9	2.3	2.3	2.3	3.1	3.9	5.8
80°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.9	2.3	3.1	4.2
82.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.5	1.9	2.3	3.1
85°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.2	1.2	1.5	1.9
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°	56.4	56.4	56.4
2.5°	42.9	40.5	39.4
5°	35.1	33.2	32.8
7.5°	32.4	32.0	32.0
10°	31.7	32.0	32.4
12.5°	31.7	32.4	32.8
15°	31.7	32.4	32.8
17.5°	31.7	32.4	32.8
20°	31.3	32.4	33.2
22.5°	30.9	32.4	32.8
25°	30.5	32.4	32.8
27.5°	30.1	32.0	32.8
30°	29.7	32.0	33.2
32.5°	29.0	32.0	33.2
35°	28.6	32.0	33.2
37.5°	28.2	32.0	33.6
40°	27.8	32.0	33.6
42.5°	27.4	32.0	33.6
45°	27.0	31.7	33.6
47.5°	26.3	31.7	33.6
50°	25.9	31.3	33.2
52.5°	25.1	30.9	33.2
55°	24.3	30.1	32.0
57.5°	23.2	29.0	30.5
60°	21.6	27.4	29.0
62.5°	19.7	25.5	26.6
65°	18.1	23.2	24.7
67.5°	15.8	20.5	22.0
70°	13.9	17.8	19.3
72.5°	12.0	15.1	16.6
75°	10.0	12.4	13.5
77.5°	7.7	10.0	10.8
80°	6.2	7.7	8.5
82.5°	4.2	5.4	5.8
85°	2.7	3.5	3.9
87.5°	1.2	1.5	1.5
90°	0.0	0.0	0.0

(END OF REPORT)