

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: P1316306

Luminaire Tested: LDSQA3D05R459740DE010 3LSQCA45R 1MB

Issue Date: 1/29/2026

**Test Information**

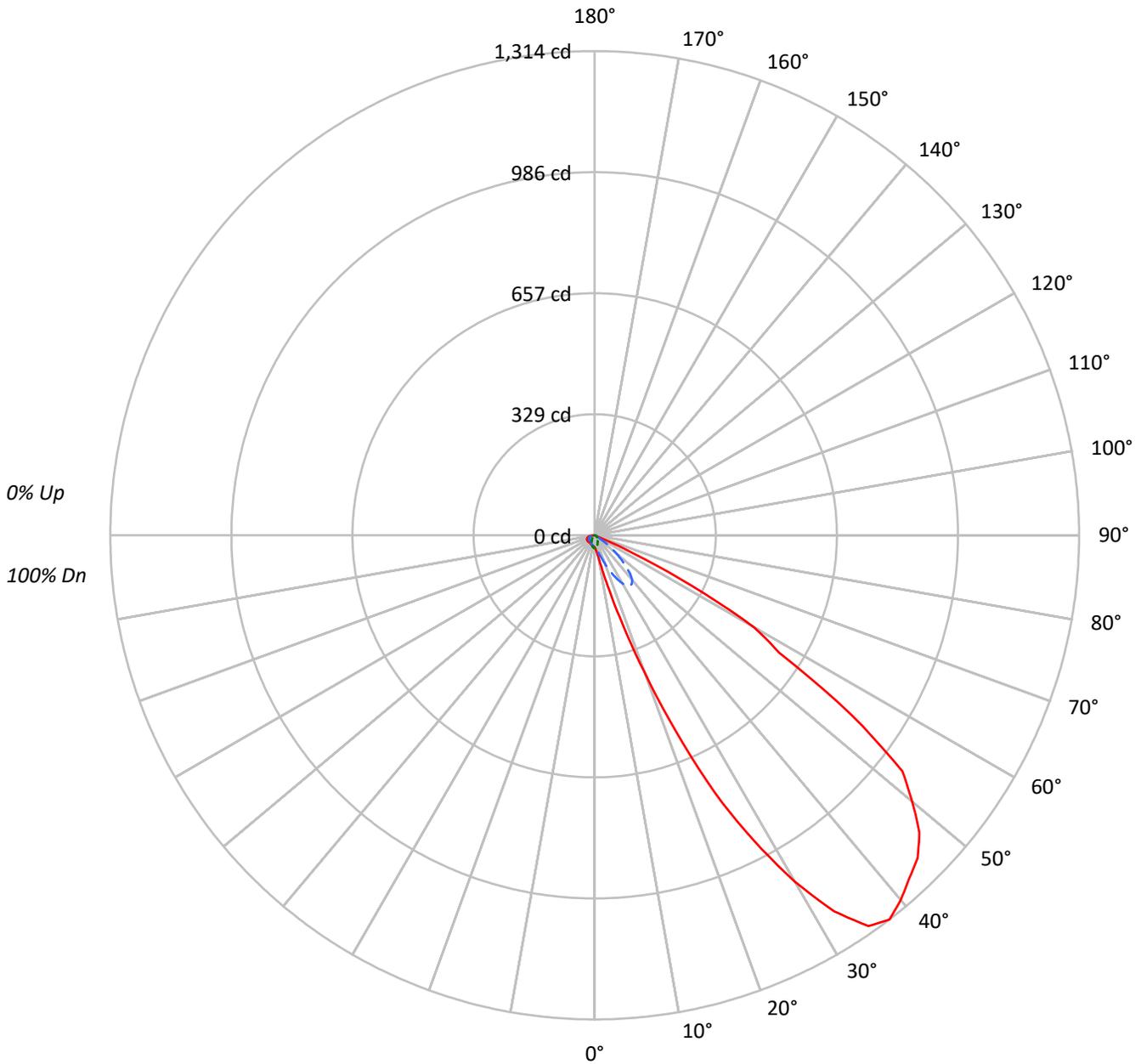
Test Method: LM-79-2019  
Report Number: P1316306  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-84)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D05R459740DE010 3LSQCA45R 1MB  
Description: 3in Adjustable LED luminaire with, R45 optic, 4000K CCT AND, 97CRI , 3LSQCA45R 1MB TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 587.0 lumens  
Efficiency: N/A  
Efficacy: 81.5 lumens/watt  
Spacing Criteria (0/90/45): 3.81 / 0.82 / 1.83  
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



— 0°-180°    - - - 45°-225°    - - - 90°-270°



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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	107	104	100	97	99	97	94	96	93	91	92	90	88	88	88	88	86
2	100	93	86	81	98	91	85	80	87	83	78	84	80	77	81	78	75	75	75	75	73
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	63	63	63	61
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	58	53	53	53	53	51
5	76	63	53	47	73	61	53	46	59	52	46	57	51	45	55	50	45	45	45	45	43
6	69	55	46	39	67	54	46	39	52	45	39	51	44	39	49	43	38	38	38	38	36
7	63	49	40	34	61	48	40	33	47	39	33	45	38	33	44	37	33	33	33	33	31
8	58	44	35	29	56	43	35	29	42	34	29	40	33	28	39	33	28	28	28	28	26
9	53	39	31	25	52	39	30	25	38	30	25	36	29	25	35	29	24	24	24	24	22
10	49	36	27	22	48	35	27	22	34	27	21	33	26	21	32	26	21	21	21	21	19

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

	0°	45°	90°	135°	180°
0°	5856	5856	5856	5856	5856
5°	6967	6448	5791	5359	5359
10°	11105	7555	5421	5089	5089
15°	27672	10109	4921	4761	4921
20°	72889	15120	4270	4527	4802
25°	146359	22404	3687	4238	4694
30°	215769	29989	2983	4156	4832
35°	272162	35174	2544	4079	5004
40°	290378	35544	2293	4249	5351
45°	301722	29641	2119	4603	5797
50°	301235	20657	2090	4930	6511
55°	256033	9188	2192	5525	7146
60°	172085	1826	2170	6166	8198
65°	45642	774	2160	6724	9291
70°	1209	957	2216	7352	10524
75°	998	998	2262	7719	11911
80°	992	1488	2380	8133	13488
85°	988	1976	3754	8695	13437

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 10°  
 Vertical Angle: 47.5°  
 Luminance: 309475 cd/sqm



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CATALOG NUMBER: LDSQA3D05R459740DE010 3LSQCA45R 1MB

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	3.4	0.6
10°-20°	16.6	2.8
20°-30°	68.3	11.6
30°-40°	143.9	24.5
40°-50°	177.6	30.2
50°-60°	133.1	22.7
60°-70°	34.2	5.8
70°-80°	7.1	1.2
80°-90°	2.9	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°	88.2	15.0
0°-40°	232.1	39.5
0°-60°	542.8	92.5
0°-90°	587.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	587.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	34	34	34	34	34	
5°	40	37	34	31	31	5
15°	155	57	28	27	28	57
25°	770	118	19	22	25	359
35°	1294	167	12	19	24	789
45°	1239	122	9	19	24	948
55°	853	31	7	18	24	736
65°	112	2	5	16	23	162
75°	2	2	3	12	18	2
85°	0	1	2	4	7	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°	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0
2.5°	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.4	34.9	34.0	33.0
5°	40.3	39.8	39.8	39.8	39.3	38.8	38.8	37.3	35.4	33.5	32.0
7.5°	47.5	47.5	47.0	46.1	45.6	44.6	43.7	39.8	35.4	32.5	30.6
10°	63.5	62.6	61.1	60.1	57.7	54.3	51.9	43.2	34.9	31.0	29.6
12.5°	95.1	97.0	92.2	87.3	80.5	74.2	66.4	49.0	34.9	29.6	28.1
15°	155.2	158.6	149.4	139.7	123.2	107.7	93.1	56.7	34.0	27.6	26.2
17.5°	253.7	258.0	242.5	219.7	194.0	163.0	136.3	67.4	33.0	25.7	24.7
20°	397.7	397.2	367.2	338.5	289.1	243.5	193.5	82.5	31.5	23.3	23.3
22.5°	574.8	576.7	539.8	488.4	418.1	344.9	265.3	99.9	29.6	21.3	21.8
25°	770.2	753.7	710.1	647.5	557.8	456.4	351.6	117.9	27.6	19.4	20.4
27.5°	933.2	917.2	867.2	793.0	696.5	576.2	439.4	135.8	25.2	17.5	18.9
30°	1085.0	1064.6	1004.5	920.6	805.6	675.6	521.9	150.8	22.3	15.0	17.5
32.5°	1210.1	1191.7	1123.3	1025.8	900.7	761.0	591.7	162.5	19.4	13.6	16.5
35°	1294.5	1275.6	1212.6	1105.4	969.1	823.1	648.5	167.3	17.0	12.1	16.0
37.5°	1313.9	1303.7	1258.6	1158.2	1016.1	862.9	684.9	165.9	14.1	11.2	15.0
40°	1291.6	1294.0	1272.7	1189.3	1041.3	879.8	699.9	158.1	11.6	10.2	14.6
42.5°	1263.0	1269.3	1267.9	1201.9	1052.0	880.8	693.6	142.6	9.2	9.2	14.1
45°	1238.8	1245.1	1253.8	1196.6	1044.7	868.2	673.7	121.7	6.8	8.7	14.1
47.5°	1194.6	1201.4	1214.0	1153.9	1007.9	835.7	637.8	98.9	4.9	8.2	13.6
50°	1124.3	1127.7	1124.3	1056.9	937.1	783.3	579.6	77.1	3.4	7.8	13.6
52.5°	1052.0	1045.2	1017.1	931.7	824.5	700.4	506.4	54.8	2.4	7.3	13.1
55°	852.7	842.0	821.1	768.8	707.6	598.5	409.4	30.6	2.4	7.3	12.6
57.5°	594.2	600.0	607.2	596.6	568.4	471.4	310.9	13.6	2.4	6.8	12.6
60°	499.6	494.7	495.2	488.4	441.9	343.9	213.9	5.3	2.4	6.3	12.1
62.5°	298.3	301.7	308.0	309.4	263.4	192.1	112.0	2.4	2.4	5.8	11.6
65°	112.0	117.4	102.8	89.2	70.8	51.9	26.2	1.9	2.9	5.3	10.7
67.5°	3.4	3.9	4.9	4.4	4.4	3.9	2.9	1.9	2.9	4.9	10.2
70°	2.4	2.4	2.4	2.4	2.4	1.9	1.9	1.9	2.4	4.4	9.2
72.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.4	3.9	8.2
75°	1.5	1.9	1.5	1.5	1.5	1.5	1.5	1.5	2.4	3.4	6.8
77.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.9	2.9	5.8
80°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.5	1.9	2.4	4.9
82.5°	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	1.9	1.9	3.9
85°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.0	1.5	1.9	2.4
87.5°	0.0	0.0	0.0	0.0	0.5	0.5	0.5	1.0	1.5	1.5	1.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P1316306

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**CANDELA DISTRIBUTION (continued):**

	135°	157.5°	180°
0°	34.0	34.0	34.0
2.5°	32.0	32.0	32.0
5°	31.0	31.0	31.0
7.5°	30.1	30.1	30.1
10°	29.1	29.1	29.1
12.5°	28.1	28.1	28.6
15°	26.7	27.6	27.6
17.5°	25.7	26.7	27.2
20°	24.7	25.7	26.2
22.5°	23.3	24.7	25.7
25°	22.3	24.3	24.7
27.5°	21.3	23.8	24.7
30°	20.9	23.3	24.3
32.5°	19.9	22.8	23.8
35°	19.4	22.8	23.8
37.5°	19.4	22.3	23.8
40°	18.9	22.3	23.8
42.5°	18.9	22.3	23.8
45°	18.9	22.3	23.8
47.5°	18.4	22.3	24.3
50°	18.4	22.8	24.3
52.5°	18.4	22.8	24.3
55°	18.4	22.8	23.8
57.5°	17.9	22.3	23.8
60°	17.9	22.3	23.8
62.5°	17.0	21.8	23.3
65°	16.5	21.3	22.8
67.5°	15.5	20.9	21.8
70°	14.6	19.4	20.9
72.5°	13.1	18.4	19.9
75°	11.6	17.0	17.9
77.5°	10.2	15.0	16.0
80°	8.2	12.6	13.6
82.5°	6.3	9.7	10.2
85°	4.4	6.3	6.8
87.5°	1.9	2.9	3.4
90°	0.0	0.0	0.0

(END OF REPORT)