

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: P1323983

Luminaire Tested: LDSQA3D13R709030D2WDE010 3LSQCA45R 1MMS

Issue Date: 1/29/2026

**Test Information**

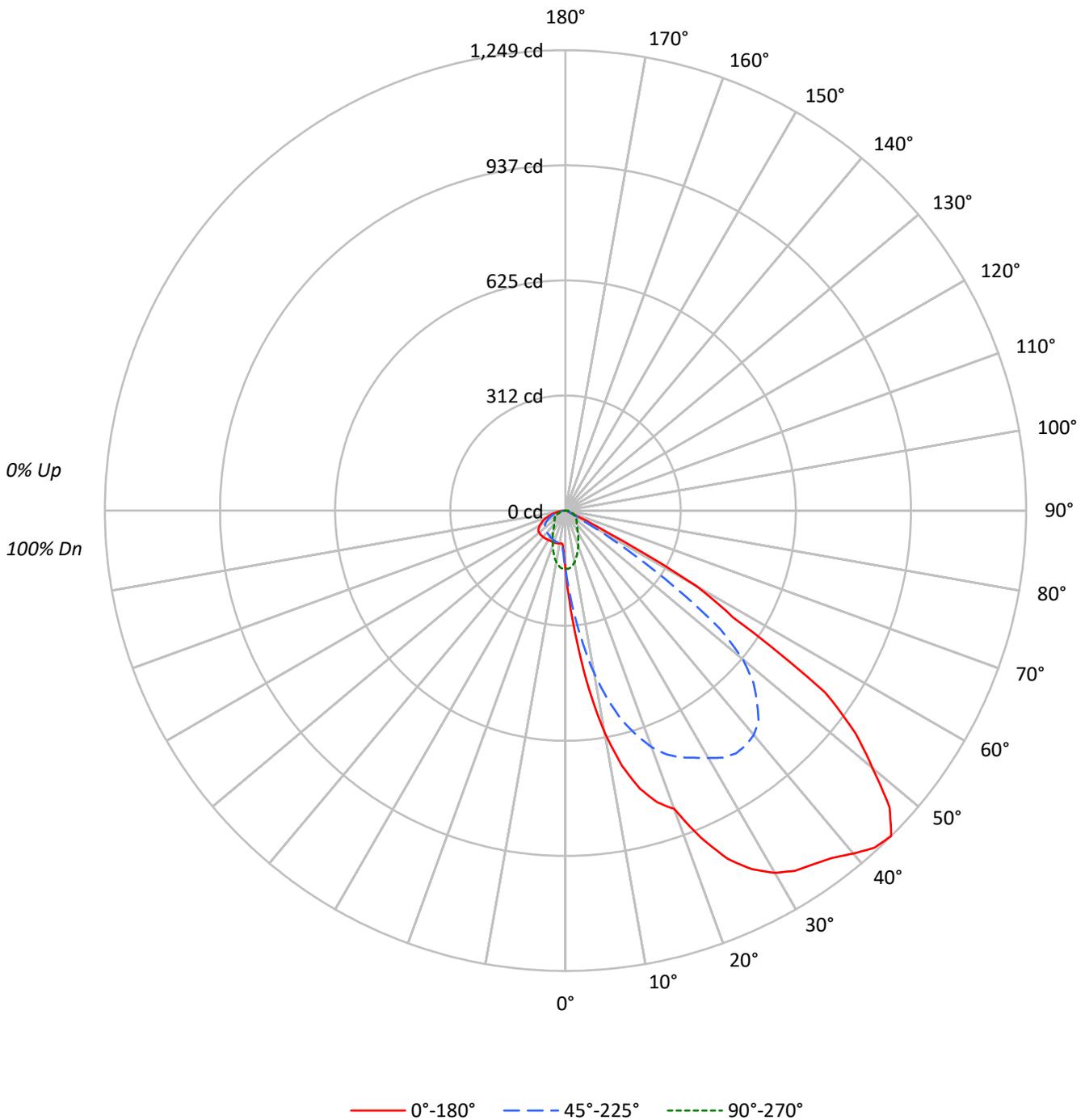
Test Method: LM-79-2019  
Report Number: P1323983  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-83)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D13R709030D2WDE010 3LSQCA45R 1MMS  
Description: 3in Adjustable Dim to Warm LED luminaire with, R70 optic, 3000K CCT AND, 90CRI ,  
3LSQCA45R 1MMS TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1079.0 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): 20.1  
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	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°	27073	27073	27073	27073	27073
5°	61597	49323	26796	16942	15819
10°	106746	78311	24850	15442	15809
15°	139358	104607	21681	15744	16314
20°	157837	125086	18547	15982	16971
25°	198217	140335	15544	16152	17387
30°	225653	154141	13264	16486	18415
35°	246260	169079	11542	16757	19469
40°	273000	178620	10657	17424	21066
45°	304157	178821	10497	18364	22822
50°	291321	168153	10396	19318	24810
55°	257954	108935	10659	20358	26843
60°	141291	23353	10747	20770	27797
65°	10106	5705	10514	20620	28078
70°	4884	5438	9769	19538	27091
75°	4325	5723	9316	18632	25086
80°	4265	5356	8529	17059	23505
85°	4347	6323	8497	14820	21341

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 304157 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	20.5	1.9
10°-20°	87.7	8.1
20°-30°	168.2	15.6
30°-40°	237.9	22.0
40°-50°	269.1	24.9
50°-60°	213.1	19.8
60°-70°	57.5	5.3
70°-80°	19.1	1.8
80°-90°	5.8	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°	276.4	25.6
0°-40°	514.4	47.7
0°-60°	996.6	92.4
0°-90°	1079.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1079.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	157	157	157	157	157	
5°	356	285	155	98	92	42
15°	782	587	122	88	92	220
25°	1043	738	82	85	92	478
35°	1171	804	55	80	93	738
45°	1249	734	43	75	94	934
55°	859	363	36	68	89	697
65°	25	14	26	51	69	89
75°	6	9	14	28	38	7
85°	2	3	4	8	11	2
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°	157.2	157.2	157.2	157.2	157.2	157.2	157.2	157.2	157.2	157.2	157.2
2.5°	244.4	244.4	243.3	239.0	236.8	231.5	227.1	215.3	186.2	158.2	135.6
5°	356.3	361.7	354.2	353.1	346.6	337.0	330.5	285.3	215.3	155.0	116.3
7.5°	488.7	490.9	488.7	478.0	468.3	452.1	437.1	366.0	244.4	149.6	102.3
10°	610.4	607.2	600.7	593.2	579.2	561.9	536.1	447.8	272.4	142.1	93.7
12.5°	709.4	708.4	700.8	693.3	676.1	653.4	627.6	522.1	296.0	132.4	89.4
15°	781.6	781.6	774.0	765.4	749.3	731.0	701.9	586.7	315.4	121.6	85.0
17.5°	830.0	827.8	822.5	816.0	803.1	784.8	762.2	638.4	328.3	110.9	84.0
20°	861.2	860.1	855.8	846.1	835.4	821.4	800.9	682.5	333.7	101.2	82.9
22.5°	961.3	952.7	936.6	916.1	890.3	856.9	828.9	715.9	331.6	90.4	80.7
25°	1043.1	1039.9	1022.7	997.9	963.5	920.4	874.1	738.5	320.8	81.8	78.6
27.5°	1097.0	1091.6	1075.4	1048.5	1011.9	969.9	926.9	755.7	305.7	74.3	75.4
30°	1134.7	1131.4	1115.3	1085.1	1047.5	1001.2	957.0	775.1	285.3	66.7	72.1
32.5°	1158.3	1155.1	1139.0	1112.0	1075.4	1027.0	976.4	794.5	260.5	60.3	68.9
35°	1171.3	1168.0	1149.7	1126.0	1091.6	1044.2	990.4	804.2	230.4	54.9	65.7
37.5°	1187.4	1180.9	1156.2	1127.1	1092.7	1048.5	994.7	803.1	200.2	50.6	63.5
40°	1214.3	1197.1	1161.6	1122.8	1087.3	1043.1	991.5	794.5	166.9	47.4	61.4
42.5°	1240.2	1215.4	1162.6	1116.4	1076.5	1033.5	979.6	775.1	130.3	45.2	60.3
45°	1248.8	1212.2	1147.6	1101.3	1063.6	1019.5	963.5	734.2	88.3	43.1	58.1
47.5°	1191.7	1164.8	1111.0	1076.5	1041.0	997.9	939.8	691.1	50.6	40.9	56.0
50°	1087.3	1070.1	1039.9	1018.4	999.0	968.9	911.8	627.6	30.1	38.8	53.8
52.5°	990.4	985.0	963.5	946.3	935.5	921.5	869.8	529.6	24.8	37.7	51.7
55°	859.1	841.8	836.5	830.0	852.6	851.5	781.6	362.8	23.7	35.5	49.5
57.5°	539.3	546.9	574.9	626.5	687.9	723.4	721.3	193.8	22.6	33.4	46.3
60°	410.2	409.1	417.7	439.2	484.4	535.0	582.4	67.8	21.5	31.2	44.1
62.5°	122.7	126.0	151.8	222.8	267.0	329.4	300.3	16.1	20.5	28.0	39.8
65°	24.8	25.8	25.8	29.1	35.5	53.8	65.7	14.0	19.4	25.8	36.6
67.5°	10.8	10.8	10.8	11.8	11.8	14.0	11.8	12.9	17.2	22.6	32.3
70°	9.7	9.7	9.7	9.7	9.7	9.7	10.8	10.8	15.1	19.4	28.0
72.5°	7.5	7.5	7.5	8.6	8.6	8.6	8.6	9.7	12.9	16.1	23.7
75°	6.5	6.5	6.5	6.5	7.5	7.5	7.5	8.6	10.8	14.0	19.4
77.5°	5.4	5.4	5.4	5.4	5.4	6.5	6.5	6.5	8.6	10.8	16.1
80°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	5.4	6.5	8.6	11.8
82.5°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	4.3	5.4	6.5	8.6
85°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	3.2	3.2	4.3	5.4
87.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	2.2	2.2	2.2	3.2
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°	157.2	157.2	157.2
2.5°	119.5	113.0	109.8
5°	98.0	92.6	91.5
7.5°	90.4	89.4	89.4
10°	88.3	89.4	90.4
12.5°	88.3	90.4	91.5
15°	88.3	90.4	91.5
17.5°	88.3	90.4	91.5
20°	87.2	90.4	92.6
22.5°	86.1	90.4	91.5
25°	85.0	90.4	91.5
27.5°	84.0	89.4	91.5
30°	82.9	89.4	92.6
32.5°	80.7	89.4	92.6
35°	79.7	89.4	92.6
37.5°	78.6	89.4	93.7
40°	77.5	89.4	93.7
42.5°	76.4	89.4	93.7
45°	75.4	88.3	93.7
47.5°	73.2	88.3	93.7
50°	72.1	87.2	92.6
52.5°	70.0	86.1	92.6
55°	67.8	84.0	89.4
57.5°	64.6	80.7	85.0
60°	60.3	76.4	80.7
62.5°	54.9	71.1	74.3
65°	50.6	64.6	68.9
67.5°	44.1	57.1	61.4
70°	38.8	49.5	53.8
72.5°	33.4	42.0	46.3
75°	28.0	34.4	37.7
77.5°	21.5	28.0	30.1
80°	17.2	21.5	23.7
82.5°	11.8	15.1	16.1
85°	7.5	9.7	10.8
87.5°	3.2	4.3	4.3
90°	0.0	0.0	0.0

(END OF REPORT)