

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: P1315331

Luminaire Tested: LDSQA3D05R459735DE010 3LSQCA30R 1MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1315331
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-58)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D05R459735DE010 3LSQCA30R 1MB
Description: 3in Adjustable LED luminaire with, R45 optic, 3500K CCT AND, 97CRI , 3LSQCA30R 1MB TRIM
Light Source: -
Ballast/Driver: -

Summary

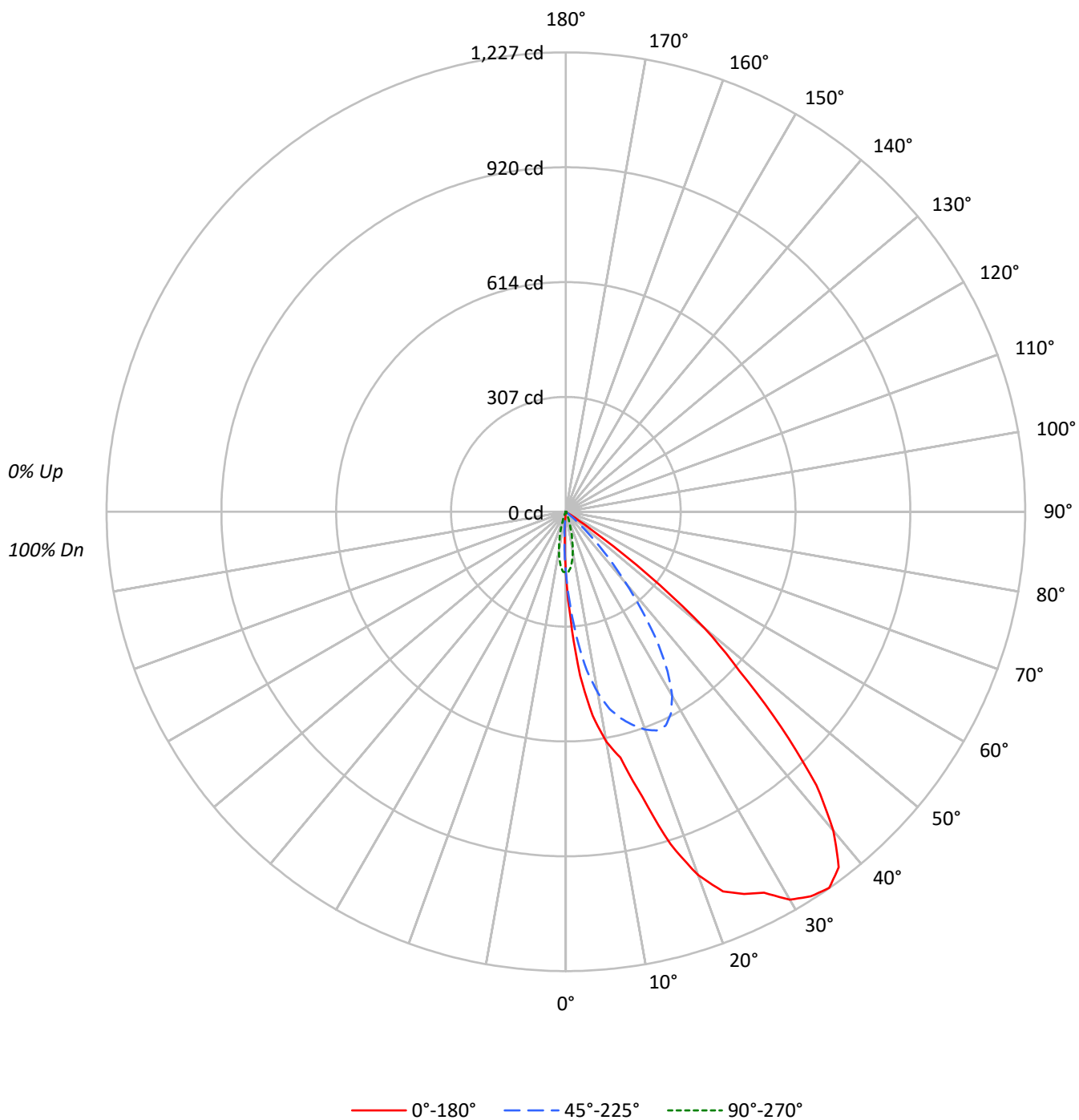
Lumens per Lamp: N/A
Luminaire Lumens: 520.0 lumens
Efficiency: N/A
Efficacy: 72.2 lumens/watt
Spacing Criteria (0/90/45): 2.27 / 0.42 / 1.27
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	112	109	106	104	110	107	104	102	103	101	99	99	98	96	96	94	93	91		
2	105	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	82		
3	99	91	85	80	97	90	84	80	87	82	78	84	80	77	82	79	76	74		
4	92	83	76	71	90	82	76	71	80	74	70	77	73	69	76	72	68	67		
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	70	65	62	60		
6	80	70	62	57	79	69	62	57	67	61	57	66	60	56	64	59	56	54		
7	75	64	57	52	74	63	56	51	62	56	51	61	55	51	59	54	51	49		
8	70	59	52	47	69	58	51	47	57	51	46	56	50	46	55	50	46	44		
9	66	54	47	43	65	54	47	42	53	47	42	52	46	42	51	46	42	40		
10	62	50	43	39	61	50	43	39	49	43	39	48	42	38	47	42	38	37		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	27814	27814	27814	27814	27814
5°	75929	58416	25742	5169	1936
10°	109055	85708	18607	490	402
15°	140392	101951	9896	160	0
20°	189232	113429	3757	0	0
25°	214027	119831	969	0	0
30°	237903	112956	99	0	0
35°	257887	90090	0	0	0
40°	249956	56565	0	0	0
45°	198160	26938	0	0	0
50°	129679	3376	0	0	0
55°	22279	0	0	0	0
60°	0	0	172	0	0
65°	0	204	204	0	0
70°	0	252	453	0	0
75°	0	333	599	0	0
80°	0	496	893	496	0
85°	0	988	1778	988	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 198160 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	19.2	3.7
10°-20°	74.1	14.2
20°-30°	138.7	26.7
30°-40°	161.9	31.1
40°-50°	105.6	20.3
50°-60°	19.6	3.8
60°-70°	0.2	0.0
70°-80°	0.4	0.1
80°-90°	0.4	0.1
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°	232.0	44.6
0°-40°	393.8	75.7
0°-60°	519.0	99.8
0°-90°	520.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	520.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	162	162	162	162	162	
5°	439	338	149	30	11	47
15°	787	572	56	1	0	235
25°	1126	631	5	0	0	521
35°	1227	428	0	0	0	752
45°	814	111	0	0	0	619
55°	74	0	0	0	0	129
65°	0	0	0	0	0	0
75°	0	0	1	0	0	0
85°	0	0	1	0	0	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	161.5	161.5	161.5	161.5	161.5	161.5	161.5	161.5	161.5	161.5	161.5
2.5°	284.7	287.1	282.4	280.5	274.5	275.9	265.6	261.4	254.8	244.1	239.0
5°	439.2	435.0	431.3	423.3	418.7	406.1	392.1	376.2	357.1	337.9	316.0
7.5°	549.4	546.1	544.7	538.2	528.8	515.8	497.6	477.5	452.8	427.1	393.9
10°	623.6	620.3	614.7	608.2	600.7	590.0	572.2	550.3	523.2	490.1	451.4
12.5°	672.1	671.7	662.3	654.9	645.5	636.2	618.0	600.3	573.6	539.6	495.7
15°	787.4	780.0	767.8	746.8	720.7	696.4	667.0	639.0	610.1	571.8	522.8
17.5°	931.2	922.8	902.2	875.6	833.6	787.4	737.0	692.7	649.3	597.4	539.6
20°	1032.5	1029.2	1011.9	981.1	936.3	875.2	808.9	746.3	685.2	618.9	547.5
22.5°	1097.3	1095.5	1088.5	1067.5	1021.7	953.1	867.7	783.7	709.9	632.5	545.2
25°	1126.3	1128.6	1129.6	1119.3	1082.4	1012.4	911.1	812.2	723.9	630.6	527.4
27.5°	1146.8	1146.8	1150.6	1145.9	1108.5	1034.8	927.9	822.0	719.3	607.7	490.1
30°	1196.3	1195.4	1197.7	1185.1	1133.3	1041.8	920.4	806.1	692.7	568.0	436.4
32.5°	1217.8	1218.7	1218.2	1198.2	1138.0	1037.1	902.2	775.8	643.7	506.0	365.5
35°	1226.6	1222.4	1205.2	1159.4	1083.3	975.1	850.9	724.4	575.0	428.5	288.5
37.5°	1197.2	1185.1	1146.8	1084.3	991.4	887.3	765.9	632.5	484.0	336.1	217.0
40°	1111.8	1095.9	1047.9	972.3	887.3	793.5	665.6	524.6	378.5	251.6	152.2
42.5°	990.9	972.7	920.9	855.1	777.6	679.1	551.7	410.7	277.3	173.6	96.6
45°	813.6	803.3	773.4	717.9	641.8	539.6	422.9	299.7	191.8	110.6	49.5
47.5°	629.2	616.1	594.6	556.4	492.9	395.8	295.9	203.5	123.2	54.6	10.3
50°	484.0	468.6	442.5	400.0	333.7	264.2	191.8	127.0	62.5	12.6	0.5
52.5°	278.7	281.9	269.3	242.2	205.4	158.2	111.1	63.9	14.0	0.5	0.0
55°	74.2	80.3	78.4	84.5	74.2	62.5	46.2	12.1	0.9	0.0	0.0
57.5°	0.0	0.0	0.5	0.9	2.8	4.2	1.4	0.5	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.5
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.5
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.5
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.5
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):

	55°	60°	67.5°	90°	112.5°	135°	157.5°	180°
0°	161.5	161.5	161.5	161.5	161.5	161.5	161.5	161.5
2.5°	227.3	217.5	205.4	160.6	120.9	86.8	67.7	62.5
5°	295.0	271.2	240.4	148.9	74.7	29.9	13.5	11.2
7.5°	358.9	323.9	268.4	130.2	37.8	7.5	3.7	3.3
10°	408.4	361.3	288.9	106.4	14.0	2.8	2.3	2.3
12.5°	442.5	385.1	296.4	80.7	5.1	1.4	1.4	0.9
15°	462.1	394.4	289.4	55.5	1.9	0.9	0.0	0.0
17.5°	468.2	390.7	270.7	35.0	0.5	0.0	0.0	0.0
20°	463.0	372.5	241.3	20.5	0.0	0.0	0.0	0.0
22.5°	446.2	344.0	205.8	11.2	0.0	0.0	0.0	0.0
25°	414.9	303.9	164.3	5.1	0.0	0.0	0.0	0.0
27.5°	364.1	252.0	123.7	1.9	0.0	0.0	0.0	0.0
30°	306.2	196.5	87.8	0.5	0.0	0.0	0.0	0.0
32.5°	239.0	144.7	56.5	0.0	0.0	0.0	0.0	0.0
35°	179.7	101.3	33.6	0.0	0.0	0.0	0.0	0.0
37.5°	125.1	63.9	17.7	0.0	0.0	0.0	0.0	0.0
40°	77.9	34.5	6.1	0.0	0.0	0.0	0.0	0.0
42.5°	43.4	12.1	0.5	0.0	0.0	0.0	0.0	0.0
45°	10.3	0.9	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0
60°	0.0	0.5	0.5	0.5	0.0	0.0	0.0	0.0
62.5°	0.5	0.5	0.5	0.5	0.0	0.0	0.0	0.0
65°	0.5	0.5	0.5	0.5	0.5	0.0	0.0	0.0
67.5°	0.5	0.5	0.5	0.5	0.5	0.0	0.0	0.0
70°	0.5	0.5	0.5	0.9	0.5	0.0	0.0	0.0
72.5°	0.5	0.5	0.9	0.9	0.5	0.0	0.0	0.0
75°	0.5	0.5	0.9	0.9	0.5	0.0	0.0	0.0
77.5°	0.5	0.9	0.9	0.9	0.5	0.5	0.0	0.0
80°	0.5	0.9	0.9	0.9	0.9	0.5	0.0	0.0
82.5°	0.5	0.9	0.9	0.9	0.9	0.5	0.0	0.0
85°	0.5	0.9	0.9	0.9	0.5	0.5	0.0	0.0
87.5°	0.5	0.9	0.9	0.9	0.9	0.5	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)