

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: CORELITE

Report Number: P845598

Luminaire Tested: SQ2R-PP3-075D-930-UNV-STD-W-4

Issue Date: 6/14/2024

Test Information

Test Method: LM-79-2019
Report Number: P845598
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2308-131-7)
Test Lab: INNOVATION CENTER
Issue Date: 6/14/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ2R-PP3-075D-930-UNV-STD-W-4
Description: CORELITE SQ2R RECESSED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS
750 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

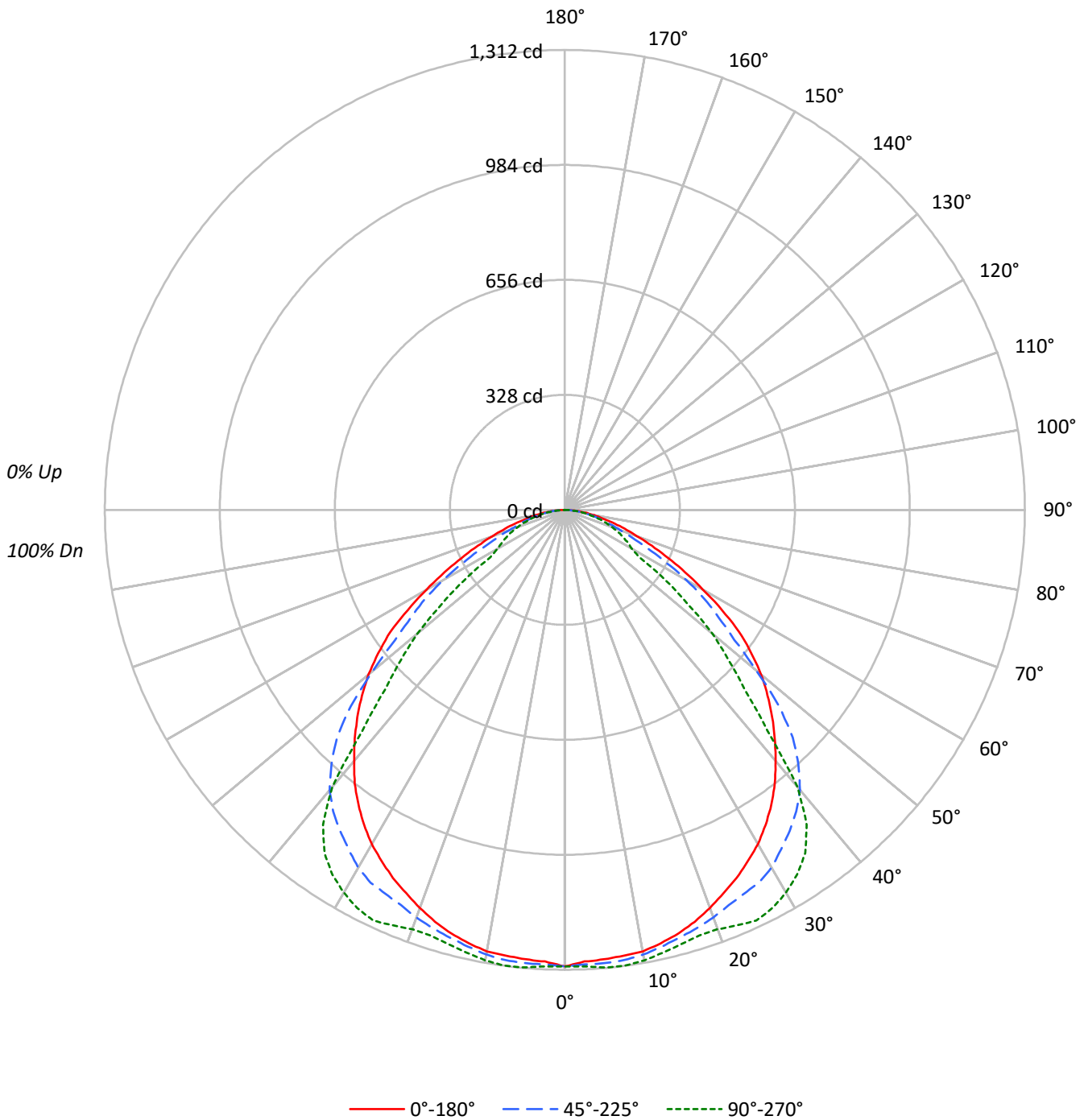
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3280.1 lumens
Efficiency: N/A
Efficacy: 122.8 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.41 / 1.4
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 26.7
Input Voltage (V): 120
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				
1	110	106	102	99	107	104	100	97	99	97	94	96	93	91	92	90	89	87				
2	101	94	88	82	99	92	86	82	88	84	80	85	81	78	82	79	76	74				
3	93	83	76	70	91	82	75	69	79	73	68	76	71	67	74	69	66	64				
4	86	75	66	60	83	73	66	60	71	64	59	69	63	58	66	61	57	55				
5	79	67	59	52	77	66	58	52	64	57	52	62	56	51	60	55	51	49				
6	73	61	52	46	71	60	52	46	58	51	46	56	50	45	55	49	45	43				
7	68	55	47	41	66	54	46	41	53	46	41	51	45	40	50	44	40	38				
8	63	50	42	37	62	50	42	37	48	41	36	47	41	36	46	40	36	34				
9	59	46	38	33	58	46	38	33	45	38	33	44	37	33	43	37	33	31				
10	56	43	35	30	54	42	35	30	41	35	30	40	34	30	40	34	30	28				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	21025	21025	21025
5°	20859	21039	21238
10°	20966	21123	21394
15°	20916	21122	21444
20°	20766	21263	21878
25°	20648	21531	23028
30°	20530	21968	23508
35°	20241	22030	23550
40°	19701	21992	21760
45°	19109	20996	16564
50°	18359	17909	13795
55°	17087	15074	9920
60°	14712	12936	7111
65°	12413	9990	6995
70°	10334	7865	6694
75°	8759	6781	6269
80°	7420	5886	5635
85°	5873	4854	3057

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 20996 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.0	3.8
10°-20°	358.9	10.9
20°-30°	562.5	17.2
30°-40°	694.6	21.2
40°-50°	653.9	19.9
50°-60°	462.3	14.1
60°-70°	262.6	8.0
70°-80°	130.1	4.0
80°-90°	31.0	0.9
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°	1045.5	31.9
0°-40°	1740.2	53.1
0°-60°	2856.4	87.1
0°-90°	3280.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3280.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1302	1302	1302	1302	1302	
5°	1287	1310	1298	1301	1310	123
15°	1251	1269	1264	1276	1283	353
25°	1159	1189	1209	1257	1293	534
35°	1027	1056	1118	1181	1195	641
45°	837	902	920	780	725	645
55°	607	644	536	405	352	536
65°	325	343	262	184	183	325
75°	140	156	109	102	100	151
85°	32	29	26	21	16	38
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1302.2	1302.2	1302.2	1302.2	1302.2
2.5°	1289.8	1313.2	1298.1	1300.8	1303.6
5°	1287.0	1310.4	1298.1	1300.8	1310.4
7.5°	1282.9	1307.7	1295.3	1299.4	1311.8
10°	1278.8	1299.4	1288.4	1295.3	1304.9
12.5°	1266.4	1285.7	1276.0	1285.7	1293.9
15°	1251.3	1269.2	1263.6	1276.0	1282.9
17.5°	1232.0	1252.6	1251.3	1267.8	1273.3
20°	1208.6	1234.7	1237.5	1259.5	1273.3
22.5°	1183.8	1215.5	1221.0	1256.8	1282.9
25°	1159.0	1189.3	1208.6	1256.8	1292.6
27.5°	1130.1	1160.4	1198.9	1252.6	1281.5
30°	1101.2	1130.1	1178.3	1234.7	1260.9
32.5°	1065.4	1095.7	1148.0	1210.0	1233.4
35°	1026.9	1055.8	1117.7	1181.1	1194.8
37.5°	984.2	1014.5	1084.7	1127.4	1132.9
40°	934.7	977.3	1043.4	1050.3	1032.4
42.5°	886.5	944.3	985.6	949.8	854.8
45°	836.9	901.6	919.5	780.5	725.4
47.5°	784.6	849.3	828.7	671.7	633.2
50°	730.9	791.5	713.0	585.0	549.2
52.5°	670.4	722.7	609.8	502.4	443.2
55°	607.0	644.2	535.5	404.7	352.4
57.5°	531.3	558.9	472.1	318.0	251.9
60°	455.6	476.3	400.6	249.2	220.2
62.5°	386.8	404.7	326.2	207.9	202.3
65°	324.9	342.8	261.5	184.5	183.1
67.5°	268.4	287.7	209.2	165.2	163.8
70°	218.9	239.5	166.6	144.5	141.8
72.5°	177.6	196.8	134.9	122.5	121.1
75°	140.4	155.5	108.7	101.9	100.5
77.5°	107.4	118.4	85.3	81.2	79.8
80°	79.8	84.0	63.3	61.9	60.6
82.5°	55.1	52.3	44.0	42.7	39.9
85°	31.7	28.9	26.2	20.6	16.5
87.5°	12.4	12.4	5.5	4.1	4.1
90°	0.0	0.0	0.0	0.0	0.0

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CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	22.03	23.55	22.39	23.86	24.18	18.43	19.96	18.80	20.27	20.58
	3H	23.17	24.54	23.55	24.86	25.23	19.58	20.94	19.96	21.27	21.63
	4H	23.55	24.82	23.95	25.17	25.55	20.08	21.35	20.47	21.70	22.08
	6H	23.79	24.97	24.21	25.34	25.73	20.45	21.63	20.86	22.00	22.39
	8H	23.86	24.98	24.29	25.37	25.77	20.56	21.68	20.98	22.07	22.47
	12H	23.89	24.97	24.32	25.35	25.78	20.59	21.66	21.02	22.04	22.47
4H	2H	22.22	23.49	22.62	23.84	24.22	19.22	20.50	19.62	20.85	21.23
	3H	23.59	24.64	24.00	25.04	25.44	20.53	21.58	20.94	21.98	22.39
	4H	24.09	25.03	24.52	25.45	25.89	21.11	22.06	21.54	22.47	22.91
	6H	24.46	25.28	24.91	25.72	26.18	21.58	22.40	22.04	22.85	23.31
	8H	24.56	25.33	25.03	25.77	26.24	21.72	22.48	22.18	22.93	23.40
	12H	24.63	25.31	25.11	25.79	26.26	21.77	22.46	22.25	22.94	23.41
8H	4H	24.15	24.92	24.61	25.36	25.83	21.43	22.20	21.89	22.64	23.11
	6H	24.60	25.24	25.10	25.73	26.21	21.99	22.63	22.49	23.12	23.60
	8H	24.76	25.33	25.27	25.84	26.33	22.18	22.75	22.69	23.26	23.75
	12H	24.87	25.38	25.38	25.87	26.44	22.28	22.79	22.79	23.28	23.84
12H	4H	24.14	24.82	24.62	25.30	25.77	21.46	22.15	21.95	22.63	23.10
	6H	24.59	25.16	25.10	25.67	26.16	22.05	22.62	22.56	23.13	23.62
	8H	24.79	25.29	25.30	25.79	26.35	22.28	22.79	22.79	23.28	23.85