

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: P688487

Luminaire Tested: SQ4R-PC3-125D-940-1-UNV-STD-W-4

Issue Date: 5/22/2023

Test Information

Test Method: LM-79-2019
Report Number: P688487
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/22/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4R-PC3-125D-940-1-UNV-STD-W-4
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
1250 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4221.9 lumens
Efficiency: N/A
Efficacy: 85.3 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 3.83' x H: 0')
CIE Type: Direct

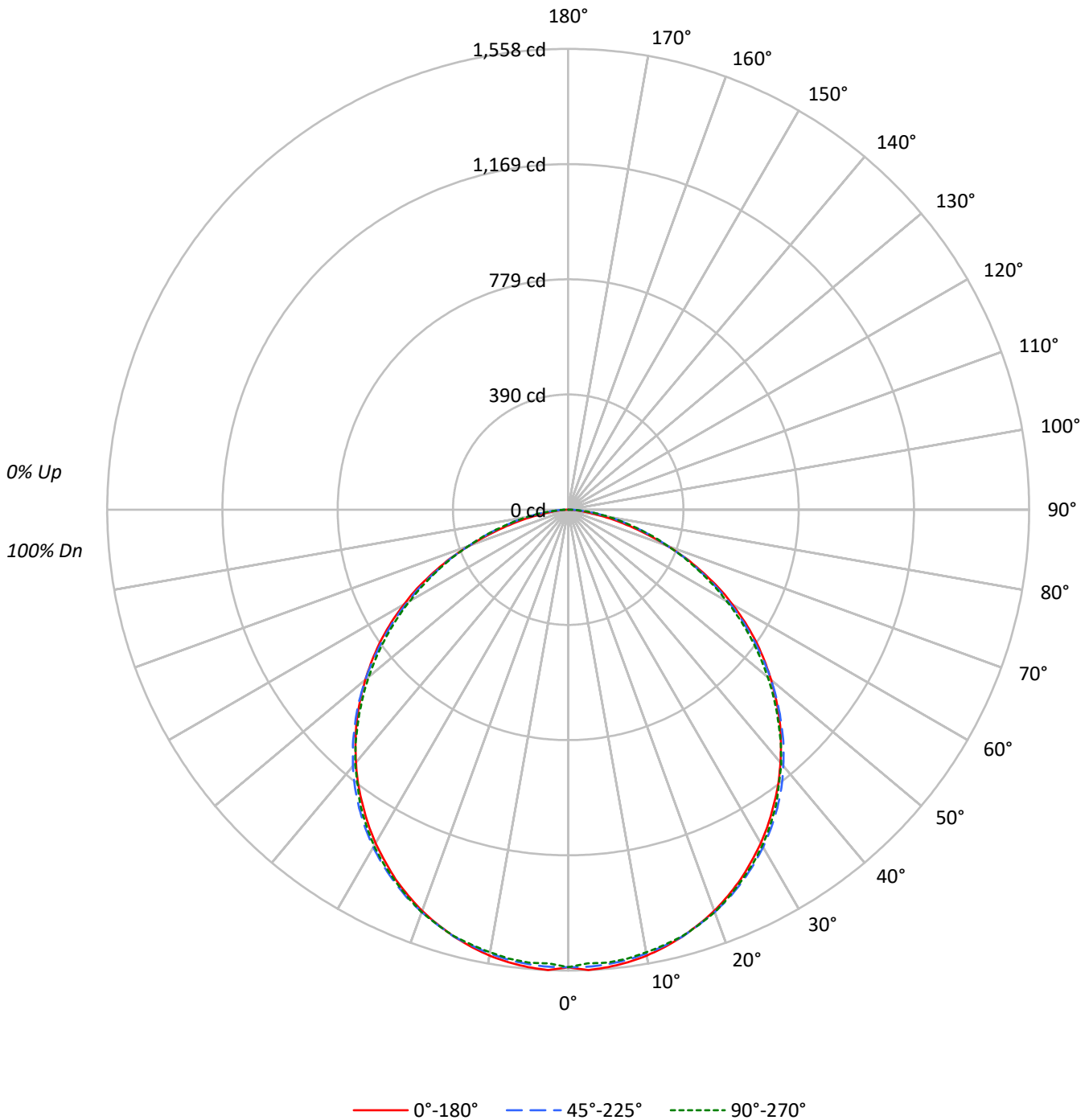
Input Watts (W): 49.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	109	105	100	97	106	102	98	95	98	95	92		94	92	89		91	88	87	85
2	99	91	85	79	97	90	83	78	86	81	76		83	78	75		80	76	73	71
3	91	80	72	66	88	79	71	65	76	70	64		73	68	63		71	66	62	60
4	83	71	63	56	81	70	62	56	68	61	55		65	59	54		63	58	53	51
5	77	64	55	48	74	63	54	48	61	53	48		59	52	47		57	51	47	44
6	71	58	49	42	69	57	48	42	55	47	42		53	46	41		52	46	41	39
7	66	52	43	37	64	51	43	37	50	42	37		48	42	37		47	41	36	34
8	61	48	39	33	60	47	39	33	46	38	33		44	38	33		43	37	33	31
9	57	44	36	30	56	43	35	30	42	35	30		41	34	30		40	34	29	28
10	54	40	32	27	52	40	32	27	39	32	27		38	31	27		37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14891	14891	14891
5°	15003	14906	14851
10°	14966	14896	14854
15°	14888	14888	14874
20°	14790	14834	14834
25°	14650	14756	14710
30°	14472	14646	14583
35°	14256	14475	14374
40°	14020	14219	14074
45°	13766	13863	13649
50°	13406	13406	13191
55°	12980	12812	12620
60°	12354	12105	11913
65°	11417	11190	11092
70°	9998	10077	10038
75°	8042	8898	8950
80°	5716	7546	7623
85°	3480	6329	6329

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 13863 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.5	3.5
10°-20°	420.3	10.0
20°-30°	636.5	15.1
30°-40°	763.1	18.1
40°-50°	778.1	18.4
50°-60°	679.1	16.1
60°-70°	486.2	11.5
70°-80°	249.8	5.9
80°-90°	62.5	1.5
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°	1203.2	28.5
0°-40°	1966.3	46.6
0°-60°	3423.5	81.1
0°-90°	4221.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4221.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1547	1547	1547	1547	1547	
5°	1552	1537	1542	1538	1537	147
15°	1494	1481	1494	1494	1492	421
25°	1379	1369	1389	1385	1385	635
35°	1213	1210	1232	1223	1223	759
45°	1011	1008	1018	1005	1002	779
55°	773	763	763	752	752	690
65°	501	490	491	487	487	496
75°	216	226	239	241	241	233
85°	32	49	57	59	57	42
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1546.7	1546.7	1546.7	1546.7	1546.7
2.5°	1558.1	1540.9	1546.7	1542.4	1535.2
5°	1552.4	1536.7	1542.4	1538.1	1536.7
7.5°	1543.8	1528.1	1535.2	1532.4	1530.9
10°	1530.9	1515.2	1523.8	1520.9	1519.5
12.5°	1513.7	1499.4	1509.4	1506.6	1506.6
15°	1493.7	1480.8	1493.7	1493.7	1492.3
17.5°	1469.3	1457.9	1470.8	1472.2	1470.8
20°	1443.6	1430.7	1447.9	1446.4	1447.9
22.5°	1412.1	1402.0	1420.7	1416.4	1417.8
25°	1379.1	1369.1	1389.1	1384.8	1384.8
27.5°	1340.5	1333.3	1354.8	1350.5	1350.5
30°	1301.8	1294.6	1317.5	1311.8	1311.8
32.5°	1258.8	1254.5	1276.0	1268.8	1268.8
35°	1213.0	1210.1	1231.6	1223.0	1223.0
37.5°	1167.2	1164.3	1184.4	1174.3	1170.0
40°	1115.6	1114.2	1131.4	1119.9	1119.9
42.5°	1064.1	1062.6	1076.9	1062.6	1062.6
45°	1011.1	1008.2	1018.2	1005.3	1002.5
47.5°	953.8	950.9	958.1	943.8	942.3
50°	895.1	892.2	895.1	882.2	880.7
52.5°	834.9	829.2	829.2	816.3	816.3
55°	773.3	763.3	763.3	751.9	751.9
57.5°	708.9	696.0	697.4	687.4	686.0
60°	641.6	627.3	628.7	620.1	618.7
62.5°	575.7	558.5	562.8	552.8	552.8
65°	501.2	489.8	491.2	486.9	486.9
67.5°	432.5	421.0	428.2	423.9	423.9
70°	355.2	348.0	358.0	358.0	356.6
72.5°	283.6	285.0	297.9	297.9	299.3
75°	216.2	226.3	239.2	240.6	240.6
77.5°	154.7	171.9	186.2	186.2	186.2
80°	103.1	123.2	136.1	138.9	137.5
82.5°	61.6	83.1	93.1	96.0	94.5
85°	31.5	48.7	57.3	58.7	57.3
87.5°	11.5	24.3	28.6	28.6	25.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)