

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: P688688

Luminaire Tested: SQ4R-PC3-125D-92765-1-UNV-STD-W-4_5000K

Issue Date: 5/22/2023

Test Information

Test Method: LM-79-2019
Report Number: P688688
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-92765-1-UNV-STD-W-4_5000K
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
1250 LUMENS PER FOOT
Light Source: 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5134.4 lumens
Efficiency: N/A
Efficacy: 83.8 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

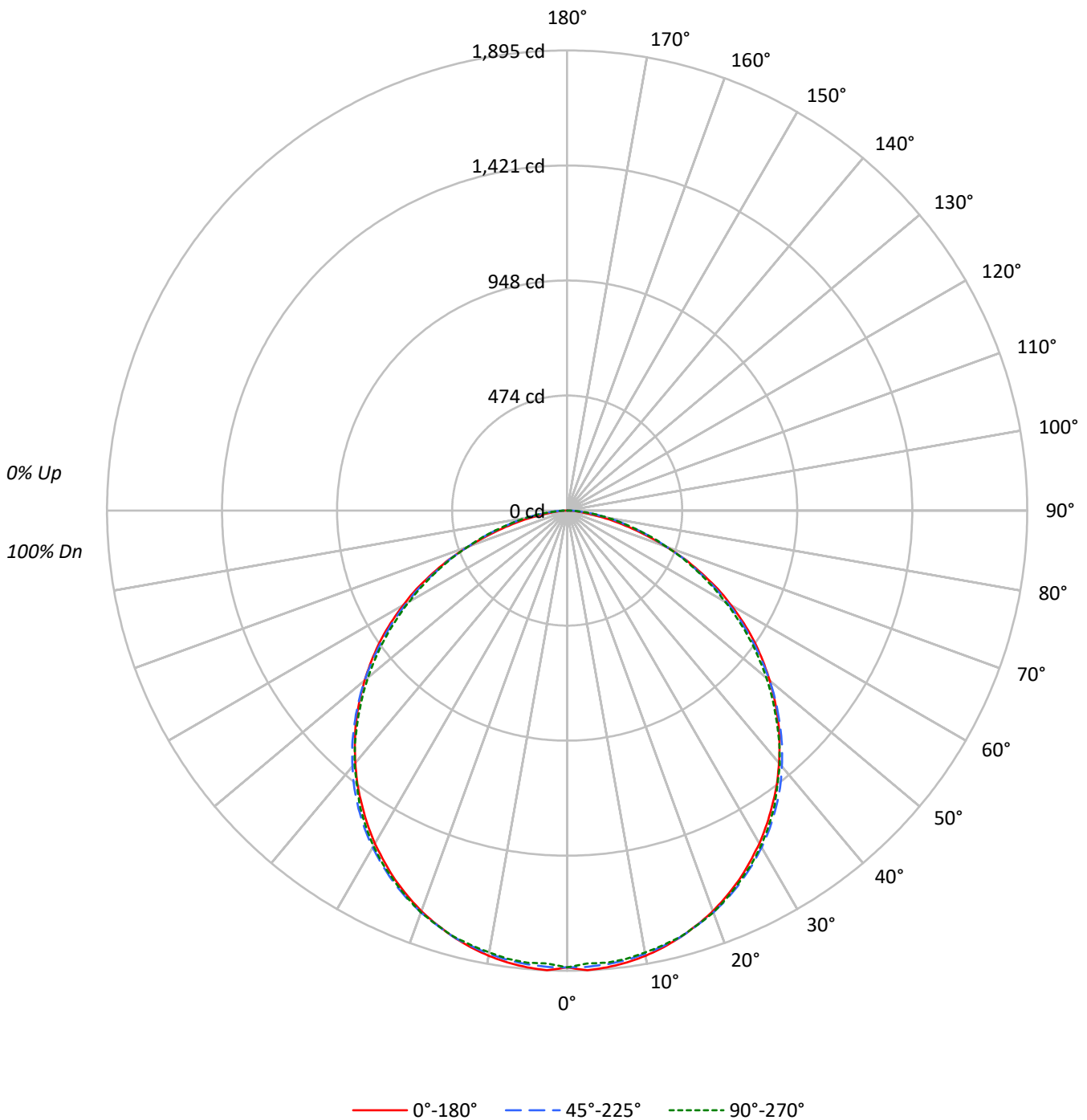
Input Watts (W): 61.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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°	18109	18109	18109
5°	18245	18127	18060
10°	18201	18116	18065
15°	18105	18105	18088
20°	17986	18040	18040
25°	17816	17946	17890
30°	17599	17812	17734
35°	17338	17603	17480
40°	17050	17292	17116
45°	16741	16860	16598
50°	16303	16303	16042
55°	15786	15581	15348
60°	15023	14722	14487
65°	13887	13609	13490
70°	12157	12256	12208
75°	9783	10821	10884
80°	6952	9176	9270
85°	4231	7699	7699

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 16860 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	178.1	3.5
10°-20°	511.1	10.0
20°-30°	774.0	15.1
30°-40°	928.0	18.1
40°-50°	946.2	18.4
50°-60°	825.9	16.1
60°-70°	591.3	11.5
70°-80°	303.7	5.9
80°-90°	76.0	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°	1463.2	28.5
0°-40°	2391.3	46.6
0°-60°	4163.4	81.1
0°-90°	5134.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5134.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1881	1881	1881	1881	1881	
5°	1888	1869	1876	1870	1869	179
15°	1816	1801	1816	1816	1815	512
25°	1677	1665	1689	1684	1684	772
35°	1475	1472	1498	1487	1487	923
45°	1230	1226	1238	1223	1219	947
55°	940	928	928	914	914	839
65°	610	596	597	592	592	604
75°	263	275	291	293	293	283
85°	38	59	70	71	70	52
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1881.0	1881.0	1881.0	1881.0	1881.0
2.5°	1894.9	1874.0	1881.0	1875.7	1867.0
5°	1887.9	1868.8	1875.7	1870.5	1868.8
7.5°	1877.5	1858.3	1867.0	1863.5	1861.8
10°	1861.8	1842.6	1853.1	1849.6	1847.9
12.5°	1840.9	1823.5	1835.7	1832.2	1832.2
15°	1816.5	1800.8	1816.5	1816.5	1814.8
17.5°	1786.9	1773.0	1788.6	1790.4	1788.6
20°	1755.6	1739.9	1760.8	1759.0	1760.8
22.5°	1717.2	1705.0	1727.7	1722.5	1724.2
25°	1677.2	1665.0	1689.4	1684.1	1684.1
27.5°	1630.2	1621.4	1647.6	1642.3	1642.3
30°	1583.1	1574.4	1602.3	1595.3	1595.3
32.5°	1530.9	1525.7	1551.8	1543.1	1543.1
35°	1475.2	1471.7	1497.8	1487.3	1487.3
37.5°	1419.4	1415.9	1440.3	1428.1	1422.9
40°	1356.7	1355.0	1375.9	1361.9	1361.9
42.5°	1294.0	1292.3	1309.7	1292.3	1292.3
45°	1229.6	1226.1	1238.3	1222.6	1219.1
47.5°	1159.9	1156.4	1165.1	1147.7	1146.0
50°	1088.5	1085.0	1088.5	1072.8	1071.1
52.5°	1015.4	1008.4	1008.4	992.7	992.7
55°	940.5	928.3	928.3	914.4	914.4
57.5°	862.1	846.4	848.2	836.0	834.2
60°	780.2	762.8	764.6	754.1	752.4
62.5°	700.1	679.2	684.5	672.3	672.3
65°	609.6	595.6	597.4	592.2	592.2
67.5°	526.0	512.0	520.7	515.5	515.5
70°	431.9	423.2	435.4	435.4	433.7
72.5°	344.8	346.6	362.3	362.3	364.0
75°	263.0	275.2	290.9	292.6	292.6
77.5°	188.1	209.0	226.4	226.4	226.4
80°	125.4	149.8	165.5	168.9	167.2
82.5°	74.9	101.0	113.2	116.7	114.9
85°	38.3	59.2	69.7	71.4	69.7
87.5°	13.9	29.6	34.8	34.8	31.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)