

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: P688849

Luminaire Tested: SQ4R-PP3-125D-93050-1-UNV-STD-W-4_4000K

Issue Date: 5/22/2023

Test Information

Test Method: LM-79-2019
Report Number: P688849
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2103-172-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/22/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4R-PP3-125D-93050-1-UNV-STD-W-4_4000K
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE PRISM 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: 5034.6 lumens
Efficiency: N/A
Efficacy: 81.9 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 3.83' x H: 0')
CIE Type: Direct

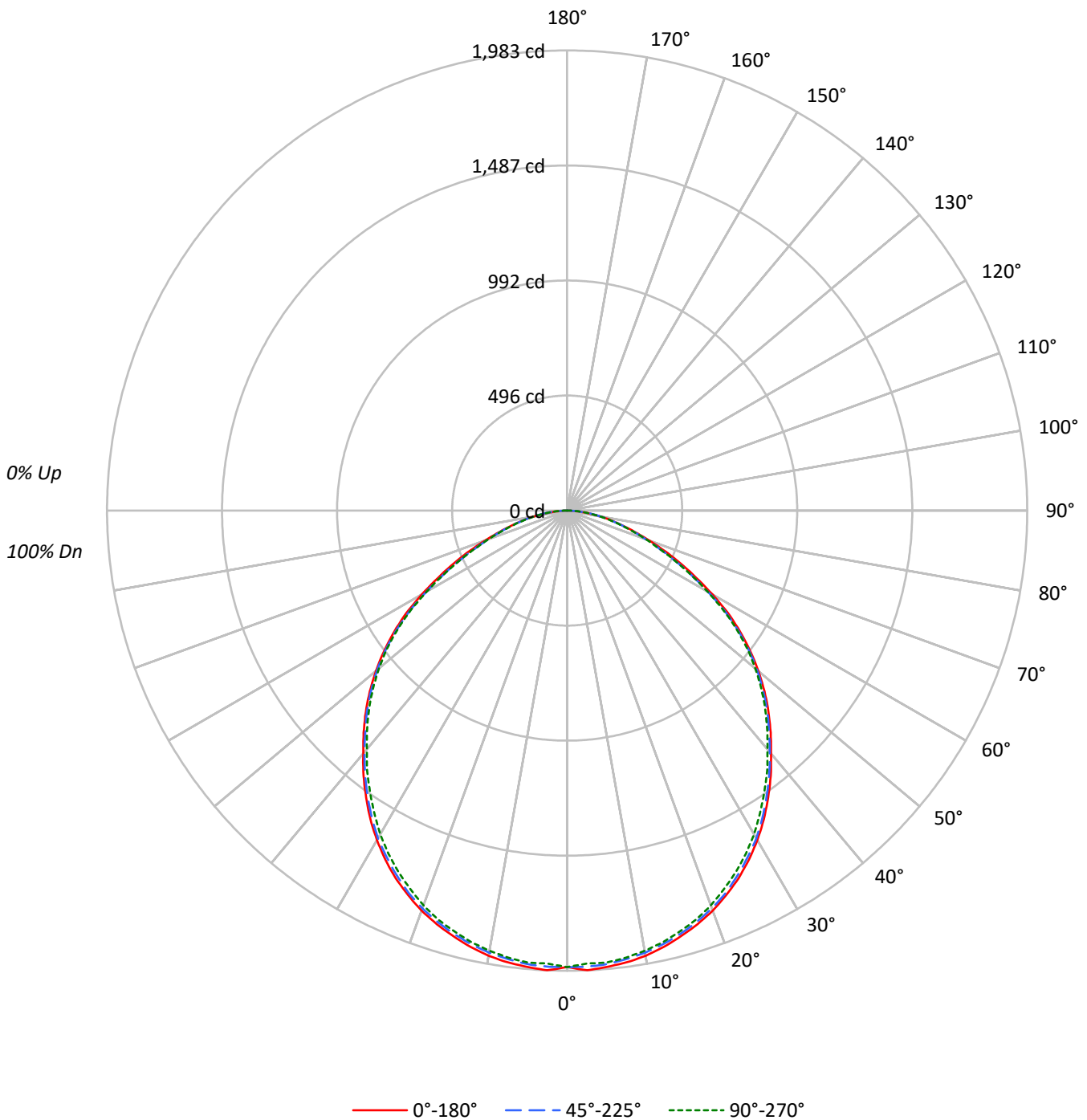
Input Watts (W): 61.5
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P688849

CATALOG NUMBER: SQ4R-PP3-125D-93050-1-UNV-STD-W-4_4000K

Luminous Intensity Polar Plot



TEST NUMBER: P688849

CATALOG NUMBER: SQ4R-PP3-125D-93050-1-UNV-STD-W-4_4000K

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	101	97	107	103	99	96	98	95	93		95	92	90		91	89	87	85
2	100	92	86	80	97	90	84	79	87	82	77		84	79	76		81	77	74	72
3	92	81	74	67	89	80	73	67	77	71	66		74	69	64		72	67	63	61
4	84	72	64	57	82	71	63	57	69	62	56		66	60	56		64	59	55	53
5	77	65	56	50	75	64	56	50	62	55	49		60	53	48		58	52	48	46
6	72	59	50	44	70	58	49	43	56	49	43		54	48	43		53	47	42	40
7	66	53	45	39	65	52	44	39	51	44	38		49	43	38		48	42	38	36
8	62	49	40	35	60	48	40	34	47	39	34		45	39	34		44	38	34	32
9	58	45	37	31	56	44	36	31	43	36	31		42	35	31		41	35	31	29
10	54	41	34	28	53	41	33	28	40	33	28		39	33	28		38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	18939	18939	18939
5°	19078	18961	18894
10°	19045	18910	18826
15°	18919	18816	18713
20°	18794	18688	18547
25°	18570	18442	18259
30°	18227	18131	17901
35°	17750	17628	17406
40°	17182	17074	16878
45°	16713	16595	16431
50°	16113	16009	15855
55°	15279	15076	14960
60°	13910	13511	13444
65°	12253	11743	11704
70°	10578	10142	10142
75°	9106	8979	8849
80°	8028	8122	7934
85°	6285	6860	6860

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 16713 cd/sqm

TEST NUMBER: P688849

CATALOG NUMBER: SQ4R-PP3-125D-93050-1-UNV-STD-W-4_4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	186.1	3.7
10°-20°	531.4	10.6
20°-30°	796.0	15.8
30°-40°	933.6	18.5
40°-50°	936.5	18.6
50°-60°	799.6	15.9
60°-70°	519.7	10.3
70°-80°	260.2	5.2
80°-90°	71.4	1.4
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°	1513.6	30.1
0°-40°	2447.2	48.6
0°-60°	4183.3	83.1
0°-90°	5034.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5034.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1967	1967	1967	1967	1967	
5°	1974	1955	1962	1955	1955	188
15°	1898	1879	1888	1881	1878	536
25°	1748	1728	1736	1721	1719	804
35°	1510	1495	1500	1483	1481	944
45°	1228	1219	1219	1207	1207	946
55°	910	907	898	893	891	810
65°	538	528	516	512	514	536
75°	245	245	241	240	238	264
85°	57	62	62	62	62	68
90°	0	0	0	0	0	

TEST NUMBER: P688849

CATALOG NUMBER: SQ4R-PP3-125D-93050-1-UNV-STD-W-4_4000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1967.2	1967.2	1967.2	1967.2	1967.2
2.5°	1982.7	1962.0	1967.2	1963.7	1953.4
5°	1974.1	1955.1	1962.0	1955.1	1955.1
7.5°	1963.7	1943.0	1949.9	1943.0	1943.0
10°	1948.2	1927.5	1934.4	1927.5	1925.8
12.5°	1925.8	1905.1	1913.7	1905.1	1905.1
15°	1898.2	1879.2	1887.8	1881.0	1877.5
17.5°	1868.9	1848.2	1858.5	1849.9	1848.2
20°	1834.4	1813.7	1824.1	1810.3	1810.3
22.5°	1793.0	1772.3	1784.4	1765.4	1765.4
25°	1748.2	1727.5	1736.1	1720.6	1718.9
27.5°	1696.5	1675.8	1684.4	1667.2	1667.2
30°	1639.6	1620.6	1631.0	1612.0	1610.3
32.5°	1577.5	1560.3	1567.2	1548.2	1546.5
35°	1510.3	1494.8	1499.9	1482.7	1481.0
37.5°	1441.3	1424.1	1431.0	1415.5	1415.5
40°	1367.2	1356.8	1358.6	1346.5	1343.0
42.5°	1298.2	1286.2	1287.9	1275.8	1275.8
45°	1227.5	1218.9	1218.9	1206.8	1206.8
47.5°	1153.4	1146.5	1144.8	1134.4	1134.4
50°	1075.8	1070.6	1068.9	1060.3	1058.6
52.5°	994.8	993.1	986.2	979.3	979.3
55°	910.3	906.9	898.2	893.1	891.3
57.5°	820.7	813.8	805.1	796.5	798.2
60°	722.4	715.5	701.7	698.2	698.2
62.5°	627.6	618.9	605.1	600.0	603.4
65°	537.9	527.6	515.5	512.0	513.8
67.5°	455.2	444.8	431.0	431.0	429.3
70°	375.8	370.7	360.3	360.3	360.3
72.5°	305.2	303.4	296.5	296.5	294.8
75°	244.8	244.8	241.4	239.6	237.9
77.5°	193.1	193.1	191.4	189.6	186.2
80°	144.8	148.3	146.5	144.8	143.1
82.5°	100.0	103.4	103.4	100.0	100.0
85°	56.9	62.1	62.1	62.1	62.1
87.5°	19.0	25.9	27.6	27.6	29.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)