

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

(formerly Eaton)

Brand: CORELITE

Report Number: P564039

Luminaire Tested: **SQ4-PR1-050U-125D-940-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564039
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-21, G2-2106-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PR1-050U-125D-940-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

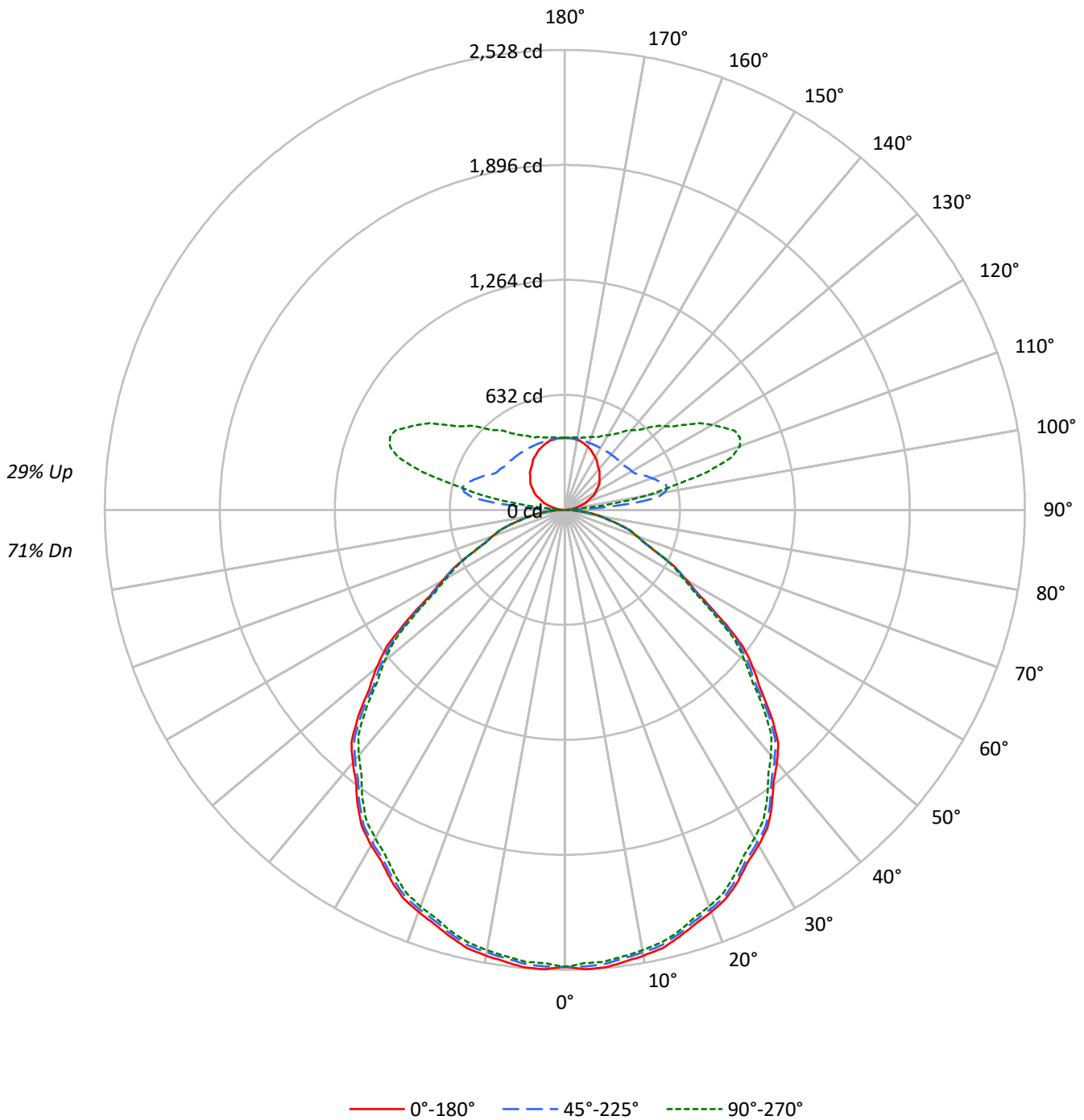
Lumens per Lamp: N/A
Luminaire Lumens: 8864.3 lumens
Efficiency: N/A
Efficacy: 101.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 87.8
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	112	112	112	112	106	106	106	106	95	95	95	85	85	85	75	75	75	71	71	71	71	
1	103	99	95	91	97	93	90	87	84	81	79	75	73	71	67	66	64	60	60	60	60	
2	94	87	80	75	89	82	77	72	74	70	66	67	63	60	60	57	55	51	51	51	51	
3	86	77	69	63	81	73	66	61	66	60	56	59	55	52	53	50	47	44	44	44	44	
4	79	68	60	54	75	65	58	52	59	53	48	53	48	45	48	44	41	38	38	38	38	
5	73	61	53	47	69	58	51	45	53	47	42	48	43	39	43	39	36	33	33	33	33	
6	67	55	47	41	63	52	45	39	48	41	37	43	38	34	39	35	32	29	29	29	29	
7	62	50	42	36	59	48	40	35	43	37	33	40	34	30	36	32	28	26	26	26	26	
8	58	45	37	32	55	43	36	31	40	34	29	36	31	27	33	29	25	23	23	23	23	
9	54	41	34	29	51	40	33	28	37	30	26	33	28	25	31	26	23	21	21	21	21	
10	51	38	31	26	48	37	30	25	34	28	24	31	26	22	28	24	21	19	19	19	19	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15451	15451	15451
5°	15590	15470	15390
10°	15541	15432	15351
15°	15472	15376	15293
20°	15394	15296	15182
25°	15286	15183	15007
30°	15122	15014	14798
35°	14898	14768	14557
40°	14559	14402	14141
45°	13965	13720	13438
50°	12919	12609	12360
55°	11276	11021	10789
60°	9502	9422	9236
65°	8219	8251	8188
70°	7550	7587	7587
75°	7251	7251	7301
80°	6822	6896	6822
85°	5498	6105	6105



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	237.6	2.7
10°-20°	679.7	7.7
20°-30°	1025.1	11.6
30°-40°	1221.4	13.8
40°-50°	1204.2	13.6
50°-60°	920.3	10.4
60°-70°	569.5	6.4
70°-80°	323.5	3.6
80°-90°	99.9	1.1
90°-100°	189.9	2.1
100°-110°	515.9	5.8
110°-120°	530.4	6.0
120°-130°	424.1	4.8
130°-140°	333.2	3.8
140°-150°	255.5	2.9
150°-160°	183.7	2.1
160°-170°	112.4	1.3
170°-180°	37.9	0.4
0°-30°	1942.3	21.9
0°-40°	3163.8	35.7
0°-60°	5288.4	59.7
0°-90°	6281.3	70.9
90°-120°	1236.2	13.9
90°-150°	2249.0	25.4
90°-180°	2583.0	29.1
0°-180°	8864.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2512	2512	2512	2512	2512	
5°	2525	2498	2506	2497	2493	240
15°	2430	2404	2415	2406	2402	686
25°	2252	2225	2237	2213	2211	1037
35°	1984	1961	1967	1941	1939	1238
45°	1605	1584	1577	1549	1545	1230
55°	1052	1035	1028	1010	1006	942
65°	565	560	567	563	563	572
75°	305	305	305	307	307	322
85°	78	82	86	86	86	91
90°	1	5	9	11	11	5
95°	28	104	331	144	97	30
105°	92	143	567	864	813	97
115°	163	198	454	903	1029	161
125°	224	255	411	692	817	200
135°	270	300	399	564	636	209
145°	312	334	394	479	515	196
155°	352	365	392	430	443	162
165°	382	387	393	410	411	108
175°	396	397	394	399	398	38
180°	396	396	396	396	396	

TEST NUMBER: P564039

CATALOG NUMBER: SQ4-PR1-050U-125D-940-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2512.0	2512.0	2512.0	2512.0	2512.0
2.5°	2527.6	2505.6	2512.0	2506.6	2494.7
5°	2525.0	2497.5	2505.5	2496.8	2492.6
7.5°	2505.5	2478.5	2486.5	2477.8	2475.2
10°	2488.2	2462.8	2470.9	2462.2	2457.9
12.5°	2469.2	2442.1	2451.9	2441.4	2437.2
15°	2429.8	2404.4	2414.7	2405.9	2401.7
17.5°	2386.5	2359.5	2369.7	2359.6	2354.1
20°	2351.9	2326.5	2336.8	2321.6	2319.5
22.5°	2313.8	2288.4	2298.7	2278.3	2277.9
25°	2252.4	2224.9	2237.2	2213.4	2211.3
27.5°	2179.3	2153.9	2164.1	2139.8	2137.3
30°	2129.1	2103.7	2113.9	2087.9	2083.6
32.5°	2071.9	2048.2	2056.8	2030.8	2028.2
35°	1984.1	1960.8	1966.8	1940.8	1938.7
37.5°	1884.1	1863.0	1866.4	1837.8	1835.7
40°	1813.2	1792.0	1793.7	1763.3	1761.2
42.5°	1735.3	1714.1	1712.3	1682.0	1679.9
45°	1605.4	1584.3	1577.3	1549.1	1544.9
47.5°	1457.5	1436.3	1423.3	1400.3	1397.3
50°	1350.1	1329.0	1317.7	1298.1	1291.7
52.5°	1234.2	1213.0	1203.4	1185.6	1179.2
55°	1051.5	1034.6	1027.7	1010.3	1006.1
57.5°	878.0	866.6	864.6	847.7	846.0
60°	772.4	766.1	765.9	750.8	750.8
62.5°	682.4	677.8	681.1	671.1	669.4
65°	564.7	560.5	566.9	562.6	562.6
67.5°	471.7	471.7	475.6	473.8	473.8
70°	419.8	419.8	421.9	421.9	421.9
72.5°	373.0	371.3	376.9	376.9	375.2
75°	305.1	305.1	305.1	307.2	307.2
77.5°	237.6	238.0	239.7	239.3	237.6
80°	192.6	194.7	194.7	192.6	192.6
82.5°	147.6	149.7	149.7	149.3	147.6
85°	77.9	82.1	86.5	86.5	86.5
87.5°	22.8	30.3	36.4	36.9	35.2
90°	1.3	5.0	8.9	11.4	11.4
92.5°	11.4	52.0	90.3	38.8	32.8
95°	28.0	103.9	330.7	143.9	96.7
97.5°	46.3	114.7	507.0	394.5	277.0
100°	58.5	121.9	561.0	568.6	459.2
102.5°	70.7	129.2	575.2	703.3	606.8
105°	91.6	142.6	567.3	863.8	812.8
107.5°	113.2	158.2	534.5	946.7	960.9
110°	128.5	169.5	510.1	963.0	1024.0

TEST NUMBER: P564039

CATALOG NUMBER: SQ4-PR1-050U-125D-940-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	141.7	180.8	485.7	949.5	1041.3
115°	162.8	197.6	454.1	903.4	1029.1
117.5°	182.7	216.0	434.0	838.2	979.7
120°	195.9	228.2	424.9	794.4	934.9
122.5°	207.1	239.4	418.7	750.5	886.1
125°	223.9	255.0	410.9	692.3	816.6
127.5°	238.9	269.7	406.5	648.1	754.8
130°	248.0	277.9	404.5	620.4	716.1
132.5°	257.2	287.1	402.5	596.7	681.5
135°	269.7	299.5	399.4	563.9	636.0
137.5°	283.2	310.3	397.9	534.9	595.6
140°	291.3	317.4	396.9	516.4	571.1
142.5°	299.4	323.6	395.9	502.0	547.7
145°	311.6	334.0	394.3	479.1	515.2
147.5°	325.4	344.5	393.1	461.1	489.5
150°	334.5	350.7	393.1	450.8	473.2
152.5°	341.7	355.8	392.0	441.6	460.0
155°	352.3	364.8	391.8	430.2	442.7
157.5°	362.8	372.5	391.8	422.5	432.0
160°	368.9	377.6	391.8	417.4	424.9
162.5°	375.0	381.7	392.8	413.3	418.7
165°	381.6	386.6	393.1	409.6	410.9
167.5°	388.5	391.0	394.3	405.3	406.3
170°	390.5	393.0	394.3	403.2	403.2
172.5°	392.5	394.0	394.3	401.2	401.2
175°	395.6	396.8	394.3	399.4	398.1
177.5°	396.6	396.6	393.6	397.6	395.6
180°	395.6	395.6	395.6	395.6	395.6

(END OF REPORT)