

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: P564525

Luminaire Tested: **SQ4-PW1-025U-050D-835-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564525
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, G2-2106-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PW1-025U-050D-835-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

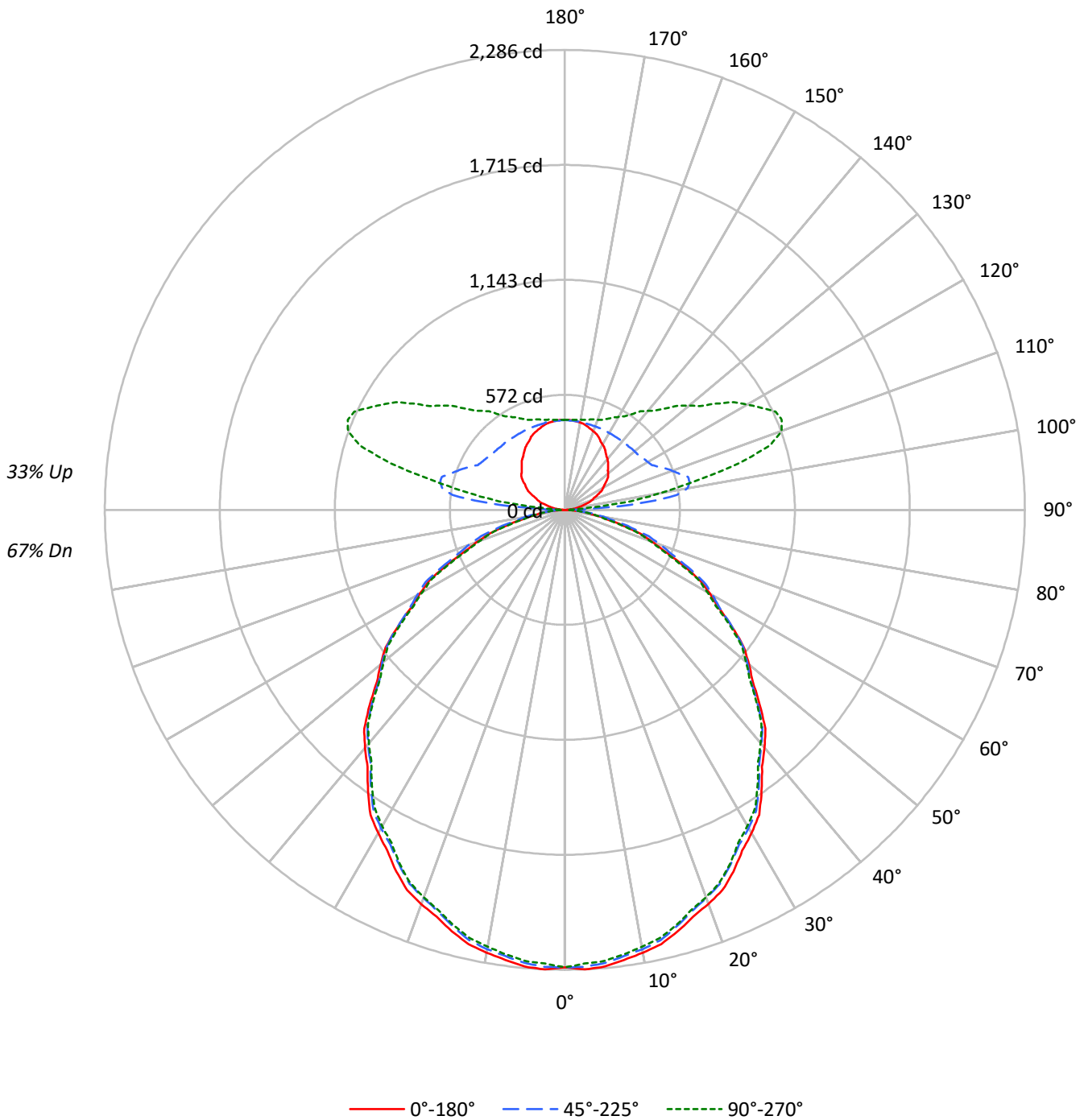
Lumens per Lamp: N/A
Luminaire Lumens: 8684.3 lumens
Efficiency: N/A
Efficacy: 126.2 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 68.8
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	0
RCR																		
0	111	111	111	111	105	105	105	105	93	93	93	82	82	82	71	71	71	67
1	102	97	93	90	96	92	88	85	82	79	77	72	70	68	63	62	61	56
2	93	85	79	74	87	80	75	70	72	67	64	63	60	57	56	53	51	47
3	85	75	67	61	79	71	64	59	63	58	54	56	52	49	50	46	44	40
4	78	66	58	52	73	63	56	50	56	50	46	50	45	42	44	41	38	35
5	71	59	51	45	67	56	49	43	50	44	40	45	40	36	40	36	33	30
6	66	53	45	39	62	51	43	38	46	39	35	41	36	32	36	32	29	26
7	61	48	40	34	57	46	38	33	41	35	31	37	32	28	33	29	26	23
8	57	44	36	30	53	42	35	29	38	32	27	34	29	25	31	26	23	21
9	53	40	32	27	50	38	31	26	35	29	25	31	26	23	28	24	21	19
10	49	37	30	25	47	35	28	24	32	26	22	29	24	21	26	22	19	17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6992	6992	6992
5°	7037	6981	6950
10°	6980	6924	6887
15°	6906	6830	6805
20°	6824	6719	6706
25°	6729	6606	6586
30°	6587	6487	6444
35°	6400	6309	6272
40°	6200	6103	6079
45°	5959	5880	5854
50°	5712	5664	5626
55°	5445	5445	5359
60°	5113	5212	5026
65°	4679	4912	4562
70°	4125	4521	4017
75°	3522	4046	3427
80°	2731	3406	2766
85°	1768	2615	2332



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	214.1	2.5
10°-20°	604.4	7.0
20°-30°	896.5	10.3
30°-40°	1049.0	12.1
40°-50°	1044.3	12.0
50°-60°	901.8	10.4
60°-70°	649.2	7.5
70°-80°	340.4	3.9
80°-90°	86.8	1.0
90°-100°	217.9	2.5
100°-110°	572.8	6.6
110°-120°	594.0	6.8
120°-130°	476.5	5.5
130°-140°	373.8	4.3
140°-150°	286.9	3.3
150°-160°	206.7	2.4
160°-170°	126.4	1.5
170°-180°	42.7	0.5
0°-30°	1715.0	19.7
0°-40°	2764.0	31.8
0°-60°	4710.2	54.2
0°-90°	5786.6	66.6
90°-120°	1384.7	15.9
90°-150°	2521.9	29.0
90°-180°	2898.0	33.4
0°-180°	8684.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2273	2273	2273	2273	2273	
5°	2279	2254	2261	2255	2251	216
15°	2169	2142	2145	2141	2137	611
25°	1983	1950	1947	1935	1941	912
35°	1705	1681	1680	1665	1670	1066
45°	1370	1358	1352	1348	1346	1057
55°	1016	1014	1016	1002	1000	906
65°	643	662	675	648	627	637
75°	296	324	340	318	288	318
85°	50	66	74	70	66	66
90°	3	8	23	12	12	4
95°	29	113	375	194	132	32
105°	103	156	633	962	897	109
115°	183	223	507	1012	1155	181
125°	255	286	461	780	920	226
135°	304	335	447	630	714	235
145°	352	375	441	537	579	221
155°	398	410	441	485	499	183
165°	430	436	441	459	464	121
175°	447	447	444	450	450	42
180°	447	447	447	447	447	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2273.4	2273.4	2273.4	2273.4	2273.4
2.5°	2286.2	2267.4	2273.4	2268.3	2257.4
5°	2279.4	2254.0	2261.4	2255.3	2251.4
7.5°	2256.2	2232.7	2238.2	2231.7	2229.3
10°	2235.3	2211.8	2217.3	2209.2	2205.3
12.5°	2211.3	2186.2	2191.7	2183.6	2181.3
15°	2169.2	2141.8	2145.2	2141.1	2137.2
17.5°	2120.4	2092.6	2093.1	2086.7	2085.9
20°	2085.1	2055.7	2053.1	2045.2	2049.1
22.5°	2046.7	2015.7	2013.0	2001.9	2007.4
25°	1983.0	1949.7	1946.9	1935.0	1940.9
27.5°	1909.3	1876.4	1876.4	1859.7	1866.0
30°	1854.8	1823.4	1826.7	1806.9	1814.7
32.5°	1797.1	1768.9	1770.7	1750.8	1758.6
35°	1704.6	1681.1	1680.5	1664.6	1670.5
37.5°	1610.0	1589.3	1586.0	1576.8	1578.4
40°	1544.3	1526.7	1520.3	1514.3	1514.3
42.5°	1475.4	1459.3	1453.0	1448.5	1447.0
45°	1370.1	1358.3	1352.0	1348.0	1346.0
47.5°	1265.9	1254.9	1249.5	1246.6	1244.7
50°	1193.8	1186.0	1183.8	1177.7	1175.8
52.5°	1121.7	1117.0	1114.9	1107.2	1105.3
55°	1015.5	1013.6	1015.5	1001.5	999.5
57.5°	905.0	908.1	914.6	895.6	890.9
60°	831.2	839.1	847.3	825.1	817.2
62.5°	755.9	768.5	780.0	754.5	743.5
65°	643.0	662.5	675.0	648.5	626.9
67.5°	534.0	558.3	573.3	544.7	520.4
70°	458.7	486.1	502.8	474.1	446.7
72.5°	393.0	423.5	437.1	410.0	382.6
75°	296.4	323.9	340.5	317.8	288.4
77.5°	210.3	236.2	250.0	230.2	205.9
80°	154.2	181.6	192.3	175.8	156.2
82.5°	109.4	132.1	139.4	129.5	116.2
85°	50.1	65.7	74.1	70.0	66.1
87.5°	13.4	25.5	35.0	32.8	34.3
90°	2.9	8.5	22.9	11.5	11.5
92.5°	12.0	58.0	128.4	56.9	36.7
95°	28.7	112.7	375.4	193.5	131.8
97.5°	49.9	123.8	561.7	446.7	329.0
100°	65.9	133.2	619.0	627.3	487.2
102.5°	79.7	142.4	635.1	781.4	661.4
105°	103.2	156.4	633.4	961.5	897.0
107.5°	127.2	176.6	597.2	1055.0	1070.7
110°	143.3	188.1	567.4	1079.1	1146.3

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	159.3	201.9	539.9	1063.9	1167.0
115°	183.4	222.6	507.3	1012.0	1154.9
117.5°	206.9	242.8	484.9	940.2	1098.8
120°	220.7	254.3	475.7	891.9	1046.0
122.5°	234.4	268.1	468.9	843.7	995.6
125°	255.1	285.9	461.4	779.8	919.9
127.5°	271.7	303.1	455.1	728.3	846.6
130°	280.9	314.5	452.8	696.0	805.3
132.5°	290.0	323.7	450.5	668.3	766.3
135°	303.8	334.6	447.1	629.5	713.6
137.5°	318.1	348.4	446.5	600.5	669.5
140°	329.6	357.6	444.2	577.5	642.0
142.5°	338.7	364.5	444.2	561.3	616.7
145°	352.5	374.9	441.3	536.9	578.9
147.5°	366.3	388.1	441.3	516.6	551.4
150°	375.4	395.0	441.3	505.0	533.1
152.5°	384.6	399.7	441.3	495.7	517.0
155°	398.4	409.6	441.3	484.6	498.7
157.5°	408.7	419.3	441.3	474.8	484.9
160°	415.5	424.0	441.3	470.1	475.7
162.5°	422.4	428.6	441.3	465.5	471.1
165°	429.9	435.5	441.3	458.7	464.3
167.5°	436.8	439.6	444.2	455.7	458.0
170°	441.3	444.1	444.2	455.7	455.7
172.5°	443.6	444.2	444.2	453.3	451.1
175°	447.1	447.1	444.2	449.9	449.9
177.5°	447.1	447.1	444.8	449.3	447.1
180°	447.1	447.1	447.1	447.1	447.1

(END OF REPORT)