

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: P520161

Luminaire Tested: **SQ4-F-0U-125D-930-1D-UNV-STD-W-6**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P520161
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-20)
Test Lab: INNOVATION CENTER
Issue Date: 4/29/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-F-0U-125D-930-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 1250 LUMENS PER FOOT
DIRECT ONLY
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

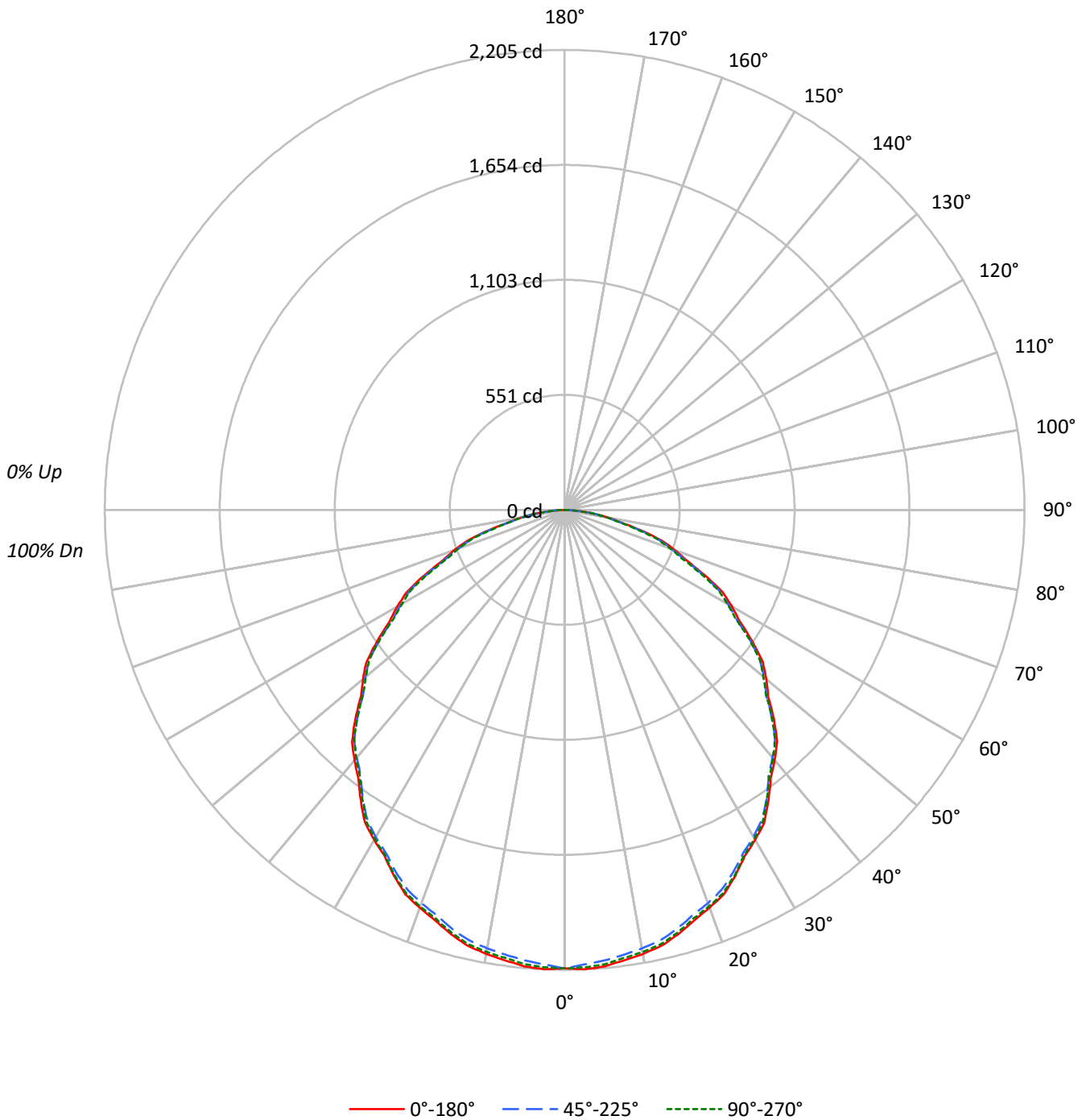
Lumens per Lamp: N/A
Luminaire Lumens: 5997.1 lumens
Efficiency: N/A
Efficacy: 92.3 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Direct

Input Watts (W): 65
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	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	72	70
3	90	80	72	65	88	78	71	65	75	69	64	73	67	63	70	65	62	59
4	83	71	62	56	81	70	61	55	67	60	54	65	59	54	63	57	53	51
5	76	63	54	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38
7	65	52	43	37	64	51	43	37	49	42	36	48	41	36	47	41	36	34
8	61	47	39	33	59	47	38	33	45	38	33	44	37	32	43	37	32	30
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	40	34	29	27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13520	13520	13520
5°	13564	13393	13505
10°	13502	13336	13442
15°	13412	13250	13358
20°	13287	13137	13240
25°	13136	12996	13104
30°	12975	12863	12931
35°	12790	12681	12690
40°	12580	12443	12482
45°	12343	12207	12228
50°	12074	11934	11901
55°	11766	11598	11572
60°	11384	11132	11073
65°	10793	10565	10424
70°	10053	9790	9661
75°	8940	8741	8482
80°	7283	7070	7028
85°	4354	4947	4947



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	207.4	3.5
10°-20°	590.7	9.8
20°-30°	887.4	14.8
30°-40°	1058.9	17.7
40°-50°	1085.4	18.1
50°-60°	967.4	16.1
60°-70°	720.2	12.0
70°-80°	390.2	6.5
80°-90°	89.5	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°	1685.5	28.1
0°-40°	2744.4	45.8
0°-60°	4797.2	80.0
0°-90°	5997.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5997.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2198	2198	2198	2198	2198	
5°	2197	2193	2169	2188	2187	208
15°	2106	2101	2081	2099	2098	594
25°	1936	1932	1915	1926	1931	891
35°	1703	1702	1689	1689	1690	1065
45°	1419	1416	1403	1401	1406	1093
55°	1097	1094	1082	1073	1079	980
65°	742	737	726	721	716	734
75°	376	376	368	360	357	400
85°	62	70	70	71	70	87
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2198.1	2198.1	2198.1	2198.1	2198.1
2.5°	2204.9	2201.2	2181.7	2198.1	2195.3
5°	2196.9	2193.4	2169.1	2188.5	2187.3
7.5°	2178.4	2173.8	2151.7	2169.7	2167.6
10°	2161.8	2158.3	2135.3	2153.3	2152.2
12.5°	2141.6	2138.0	2114.9	2133.0	2132.8
15°	2106.2	2101.4	2080.8	2098.9	2097.8
17.5°	2063.8	2058.5	2038.0	2052.3	2054.7
20°	2030.0	2026.4	2007.0	2020.3	2022.8
22.5°	1995.1	1990.7	1970.2	1985.5	1987.9
25°	1935.6	1932.1	1915.0	1926.1	1930.8
27.5°	1870.3	1870.3	1854.5	1862.3	1865.2
30°	1826.8	1826.8	1811.1	1815.9	1820.7
32.5°	1780.2	1776.5	1761.7	1765.6	1770.4
35°	1703.3	1702.2	1688.8	1688.8	1690.0
37.5°	1623.8	1620.4	1605.8	1606.9	1612.6
40°	1566.7	1564.3	1549.7	1549.8	1554.5
42.5°	1508.6	1506.2	1493.6	1491.7	1493.6
45°	1419.0	1415.5	1403.3	1401.0	1405.7
47.5°	1323.8	1324.7	1310.2	1306.8	1309.5
50°	1261.8	1261.8	1247.2	1240.1	1243.7
52.5°	1197.0	1195.0	1180.4	1172.4	1180.7
55°	1097.2	1093.7	1081.5	1073.2	1079.1
57.5°	995.2	989.7	977.5	968.4	971.7
60°	925.4	917.2	904.9	897.7	900.1
62.5°	852.9	848.4	835.2	824.2	829.5
65°	741.6	736.8	725.9	720.9	716.2
67.5°	632.4	629.4	617.0	611.9	608.7
70°	559.0	553.0	544.4	538.3	537.2
72.5°	487.3	480.4	471.8	466.6	463.6
75°	376.2	376.2	367.8	360.4	356.9
77.5°	270.5	271.4	264.4	262.0	260.4
80°	205.6	205.6	199.6	197.2	198.4
82.5°	143.7	146.6	144.4	141.0	139.4
85°	61.7	69.9	70.1	71.4	70.1
87.5°	10.6	17.2	18.3	16.4	14.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)