

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: P520133

Luminaire Tested: **SQ4-F-0U-100D-840-1D-UNV-STD-W-6**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P520133
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-19)
Test Lab: INNOVATION CENTER
Issue Date: 4/29/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-F-0U-100D-840-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 1000 LUMENS PER FOOT
DIRECT ONLY
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

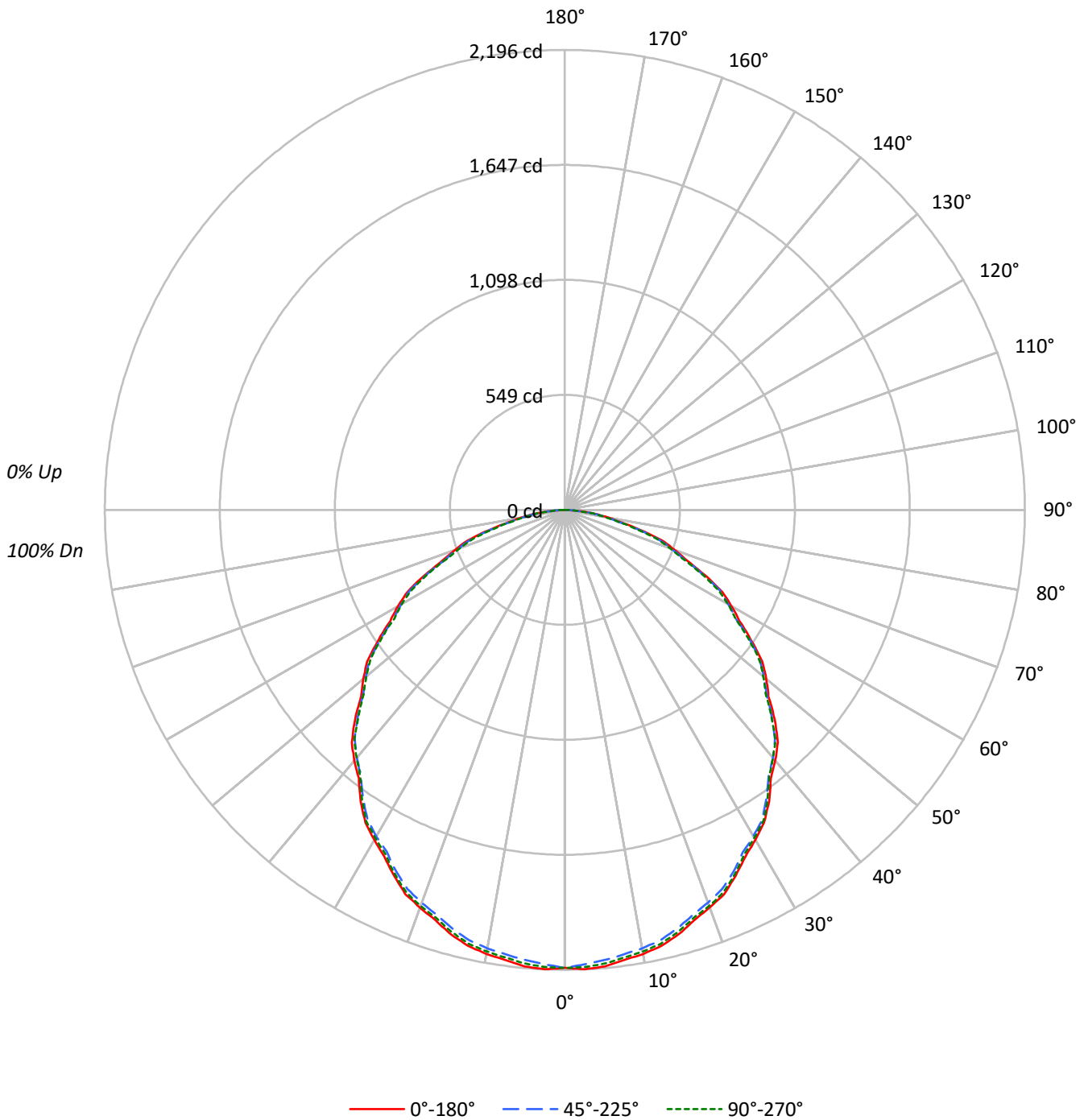
Lumens per Lamp: N/A
Luminaire Lumens: 5965.5 lumens
Efficiency: N/A
Efficacy: 116.5 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Direct

Input Watts (W): 51.2
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	37	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°	13453	13453	13453
5°	13514	13328	13431
10°	13445	13276	13380
15°	13364	13182	13288
20°	13226	13069	13177
25°	13081	12929	13030
30°	12922	12783	12847
35°	12760	12603	12670
40°	12547	12403	12415
45°	12327	12158	12118
50°	12009	11865	11836
55°	11654	11526	11445
60°	11301	11099	11062
65°	10750	10509	10422
70°	9990	9745	9557
75°	8919	8634	8456
80°	7339	7074	6751
85°	4340	4771	4877



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	206.4	3.5
10°-20°	587.9	9.9
20°-30°	882.8	14.8
30°-40°	1053.6	17.7
40°-50°	1079.9	18.1
50°-60°	961.6	16.1
60°-70°	716.9	12.0
70°-80°	388.1	6.5
80°-90°	88.3	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°	1677.1	28.1
0°-40°	2730.7	45.8
0°-60°	4772.2	80.0
0°-90°	5965.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5965.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2187	2187	2187	2187	2187	
5°	2189	2184	2159	2178	2175	208
15°	2099	2091	2070	2087	2087	591
25°	1928	1923	1905	1916	1920	888
35°	1699	1692	1678	1681	1687	1061
45°	1417	1410	1398	1390	1393	1090
55°	1087	1088	1075	1064	1067	973
65°	739	736	722	715	716	730
75°	375	371	363	356	356	400
85°	62	67	68	69	69	87
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2187.2	2187.2	2187.2	2187.2	2187.2
2.5°	2195.7	2190.9	2171.6	2187.1	2184.9
5°	2188.7	2184.4	2158.7	2178.1	2175.3
7.5°	2168.3	2164.0	2141.3	2159.3	2156.6
10°	2152.7	2148.3	2125.7	2143.6	2142.2
12.5°	2132.3	2127.9	2105.3	2123.2	2121.7
15°	2098.7	2091.3	2070.1	2086.7	2086.7
17.5°	2054.3	2048.6	2029.0	2042.8	2043.1
20°	2020.6	2016.2	1996.6	2011.7	2013.1
22.5°	1987.0	1982.5	1960.5	1974.4	1977.1
25°	1927.5	1923.1	1905.1	1915.7	1920.0
27.5°	1866.3	1859.8	1841.9	1851.4	1854.5
30°	1819.4	1816.5	1799.9	1804.5	1808.9
32.5°	1770.2	1767.2	1753.1	1755.3	1763.3
35°	1699.4	1692.0	1678.4	1681.4	1687.4
37.5°	1615.5	1612.1	1598.8	1597.1	1602.7
40°	1562.7	1556.9	1544.7	1541.8	1546.2
42.5°	1505.1	1499.2	1484.6	1481.8	1487.4
45°	1417.1	1409.7	1397.7	1390.1	1393.1
47.5°	1318.7	1318.7	1306.0	1297.4	1301.8
50°	1255.0	1255.0	1240.0	1232.6	1236.9
52.5°	1189.0	1190.1	1173.9	1170.0	1168.5
55°	1086.8	1088.3	1074.8	1064.4	1067.3
57.5°	988.3	985.2	969.4	962.6	964.1
60°	918.7	914.3	902.2	891.8	899.2
62.5°	847.8	845.9	833.8	822.0	821.2
65°	738.6	735.7	722.1	714.6	716.1
67.5°	629.9	626.4	614.0	603.3	607.1
70°	555.5	555.5	541.9	535.8	531.4
72.5°	487.0	481.1	471.0	462.6	459.3
75°	375.3	370.9	363.3	355.8	355.8
77.5°	273.2	269.4	264.5	259.4	257.9
80°	207.2	205.7	199.7	198.0	190.6
82.5°	145.9	145.7	142.0	138.1	137.8
85°	61.5	67.4	67.6	69.1	69.1
87.5°	10.8	17.8	16.8	14.4	14.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)