

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: P520146

Luminaire Tested: **SQ4-F-0U-100D-940-1D-UNV-STD-W-8**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P520146
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-940-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 1000 LUMENS PER FOOT
DIRECT ONLY
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

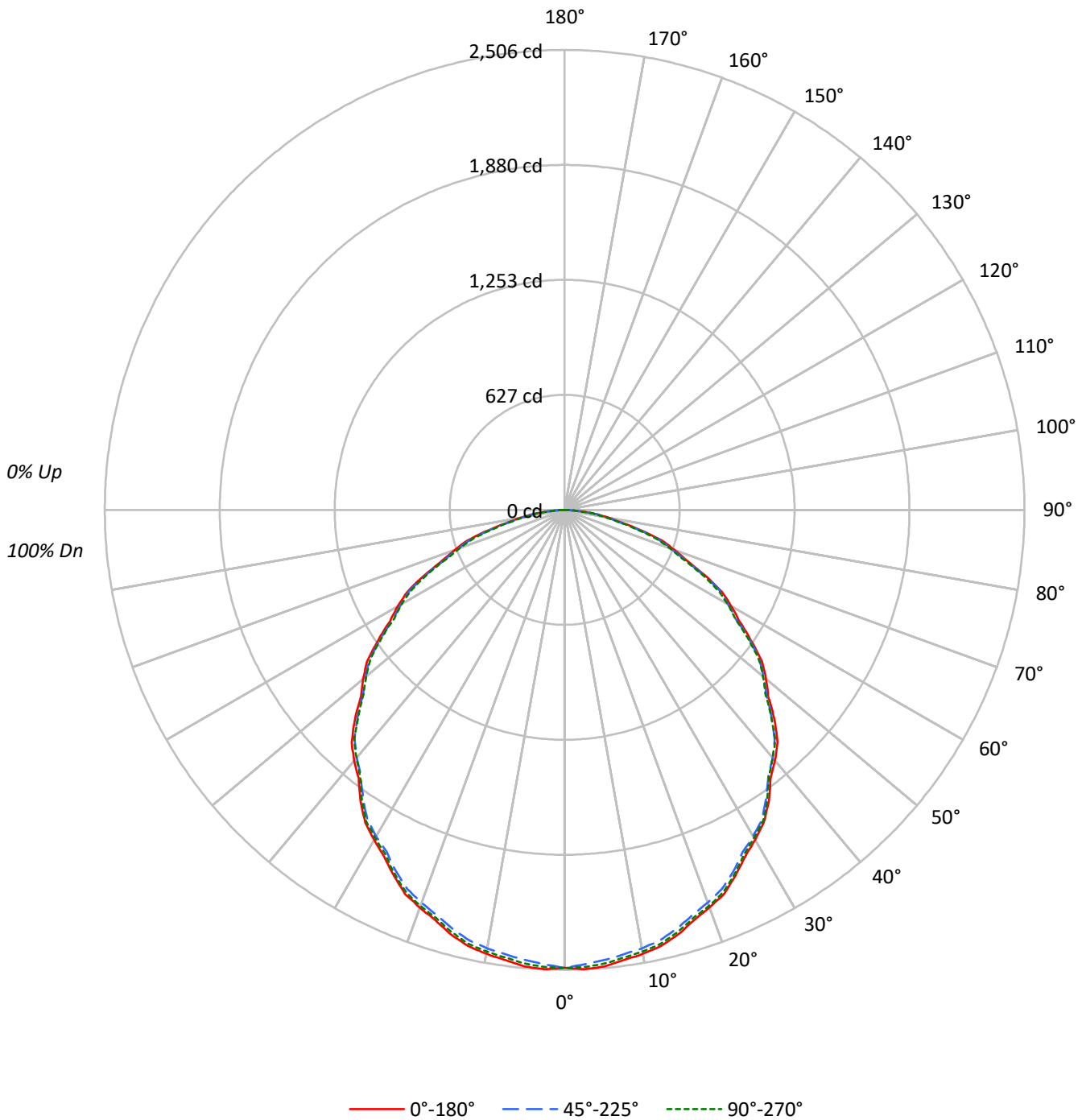
Lumens per Lamp: N/A
Luminaire Lumens: 6807.6 lumens
Efficiency: N/A
Efficacy: 100.7 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Direct

Input Watts (W): 67.6
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°	11514	11514	11514
5°	11566	11407	11495
10°	11507	11363	11451
15°	11438	11282	11372
20°	11320	11185	11277
25°	11196	11066	11152
30°	11060	10941	10996
35°	10921	10786	10844
40°	10739	10616	10626
45°	10550	10405	10372
50°	10278	10155	10131
55°	9975	9864	9796
60°	9673	9499	9467
65°	9200	8994	8919
70°	8549	8342	8180
75°	7632	7390	7236
80°	6280	6054	5781
85°	3716	4081	4171



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	235.6	3.5
10°-20°	670.8	9.9
20°-30°	1007.4	14.8
30°-40°	1202.3	17.7
40°-50°	1232.3	18.1
50°-60°	1097.4	16.1
60°-70°	818.0	12.0
70°-80°	442.9	6.5
80°-90°	100.8	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°	1913.8	28.1
0°-40°	3116.1	45.8
0°-60°	5445.9	80.0
0°-90°	6807.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6807.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2496	2496	2496	2496	2496	
5°	2498	2493	2463	2486	2482	237
15°	2395	2386	2362	2381	2381	675
25°	2200	2195	2174	2186	2191	1014
35°	1939	1931	1915	1919	1926	1211
45°	1617	1609	1595	1586	1590	1244
55°	1240	1242	1226	1215	1218	1110
65°	843	840	824	815	817	834
75°	428	423	415	406	406	456
85°	70	77	77	79	79	100
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2496.0	2496.0	2496.0	2496.0	2496.0
2.5°	2505.6	2500.2	2478.1	2495.9	2493.2
5°	2497.7	2492.7	2463.4	2485.6	2482.3
7.5°	2474.4	2469.3	2443.6	2464.1	2461.0
10°	2456.5	2451.6	2425.7	2446.2	2444.6
12.5°	2433.3	2428.2	2402.4	2423.0	2421.3
15°	2394.9	2386.5	2362.3	2381.2	2381.2
17.5°	2344.2	2337.8	2315.5	2331.2	2331.5
20°	2305.8	2300.8	2278.4	2295.5	2297.2
22.5°	2267.5	2262.4	2237.3	2253.1	2256.1
25°	2199.6	2194.6	2174.0	2186.1	2191.0
27.5°	2129.7	2122.3	2101.9	2112.6	2116.4
30°	2076.3	2072.9	2054.0	2059.2	2064.3
32.5°	2020.1	2016.7	2000.6	2003.1	2012.2
35°	1939.2	1930.8	1915.3	1918.8	1925.6
37.5°	1843.6	1839.7	1824.4	1822.5	1828.9
40°	1783.3	1776.6	1762.8	1759.5	1764.5
42.5°	1717.6	1710.9	1694.2	1690.9	1697.4
45°	1617.1	1608.8	1594.9	1586.4	1589.8
47.5°	1504.8	1504.8	1490.4	1480.6	1485.6
50°	1432.1	1432.1	1415.0	1406.6	1411.6
52.5°	1356.7	1358.1	1339.6	1335.1	1333.4
55°	1240.3	1242.0	1226.5	1214.6	1218.0
57.5°	1127.9	1124.2	1106.4	1098.4	1100.1
60°	1048.4	1043.4	1029.6	1017.8	1026.1
62.5°	967.5	965.3	951.5	938.1	937.0
65°	842.8	839.5	824.0	815.4	817.1
67.5°	718.8	714.8	700.6	688.4	692.8
70°	633.8	633.8	618.5	611.4	606.5
72.5°	555.8	549.0	537.5	527.9	524.2
75°	428.2	423.3	414.6	406.0	406.0
77.5°	311.8	307.5	301.8	296.0	294.3
80°	236.4	234.7	227.9	225.9	217.6
82.5°	166.6	166.2	162.1	157.6	157.2
85°	70.2	76.9	77.1	78.8	78.8
87.5°	12.3	20.4	19.2	16.4	16.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)