

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: P563523

Luminaire Tested: **SQ4-PP3-0U-100D-840-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563523
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2103-172-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PP3-0U-100D-840-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
DIRECT ONLY
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

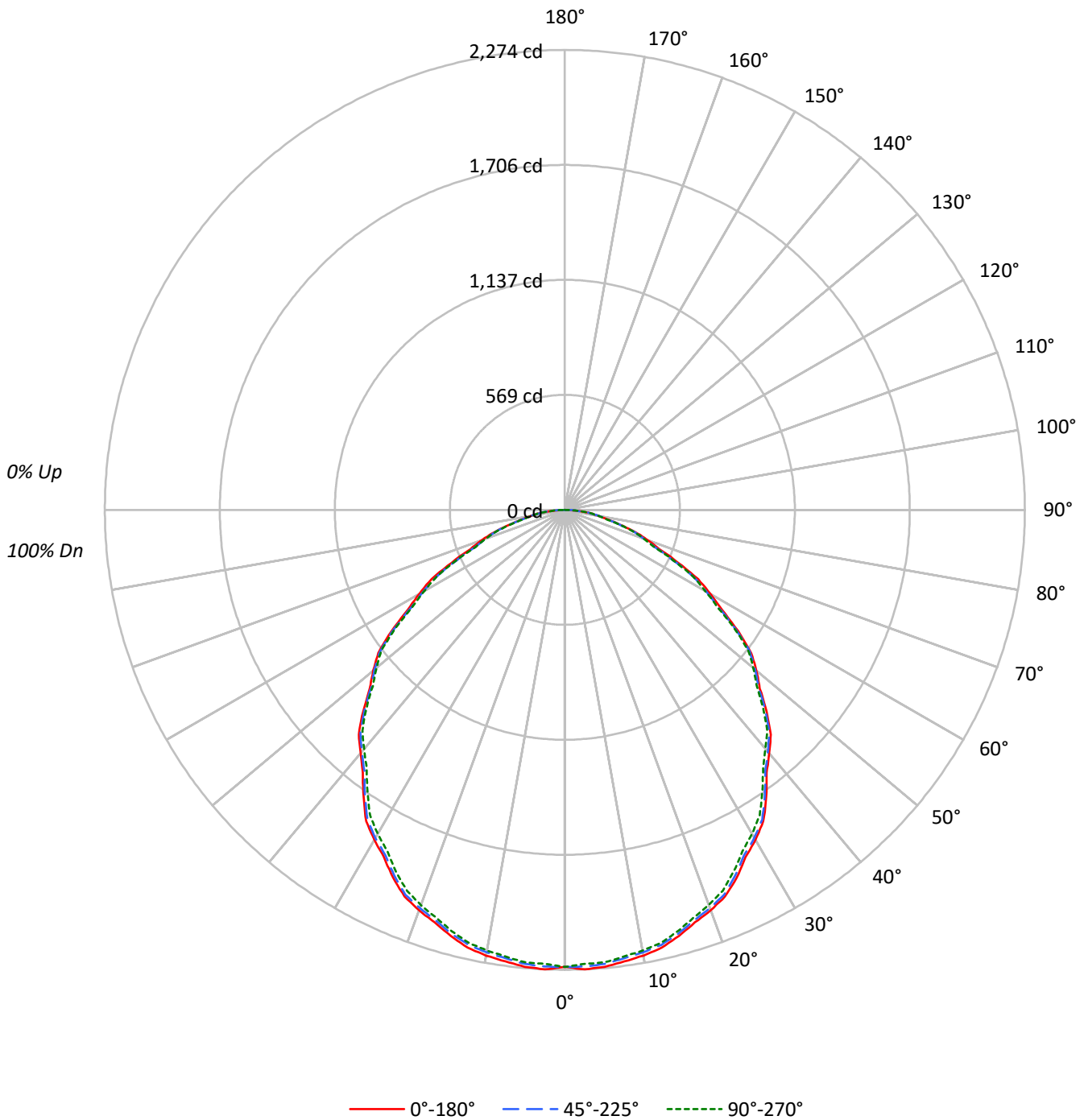
Lumens per Lamp: N/A
Luminaire Lumens: 5783.9 lumens
Efficiency: N/A
Efficacy: 104.6 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Direct

Input Watts (W): 55.3
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	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85
2	100	92	86	80	97	90	84	79	87	82	77	84	79	76	81	77	74	72
3	92	81	74	67	89	80	73	67	77	71	66	74	69	64	72	67	63	61
4	84	72	64	57	82	71	63	57	69	62	56	66	60	56	64	59	55	53
5	77	65	56	50	75	64	56	49	62	54	49	60	53	48	58	52	48	46
6	72	59	50	44	70	58	49	43	56	49	43	54	48	43	53	47	42	40
7	66	53	45	39	65	52	44	39	51	44	38	49	43	38	48	42	38	36
8	62	49	40	35	60	48	40	34	47	39	34	45	39	34	44	38	34	32
9	58	45	37	31	56	44	36	31	43	36	31	42	35	31	41	35	31	29
10	54	41	34	28	53	41	33	28	40	33	28	39	33	28	38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13900	13900	13900
5°	14001	13916	13867
10°	13978	13879	13817
15°	13886	13810	13734
20°	13793	13716	13612
25°	13630	13535	13401
30°	13377	13307	13138
35°	13028	12938	12775
40°	12611	12531	12388
45°	12267	12181	12060
50°	11826	11750	11637
55°	11214	11066	10980
60°	10209	9916	9867
65°	8993	8619	8590
70°	7765	7443	7443
75°	6683	6590	6495
80°	5894	5961	5823
85°	4615	5032	5032



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	213.7	3.7
10°-20°	610.1	10.5
20°-30°	913.9	15.8
30°-40°	1072.0	18.5
40°-50°	1075.3	18.6
50°-60°	917.4	15.9
60°-70°	598.3	10.3
70°-80°	300.1	5.2
80°-90°	83.1	1.4
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°	1737.7	30.0
0°-40°	2809.7	48.6
0°-60°	4802.4	83.0
0°-90°	5783.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5783.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2260	2260	2260	2260	2260	
5°	2268	2246	2254	2246	2246	215
15°	2181	2159	2169	2161	2157	615
25°	2008	1985	1994	1977	1975	923
35°	1735	1718	1723	1703	1701	1084
45°	1410	1400	1400	1386	1386	1086
55°	1046	1042	1032	1026	1024	929
65°	618	606	592	588	590	617
75°	281	281	277	275	273	305
85°	65	71	71	71	71	79
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2259.8	2259.8	2259.8	2259.8	2259.8
2.5°	2274.1	2255.5	2259.8	2256.4	2247.1
5°	2267.7	2246.4	2253.9	2246.0	2246.0
7.5°	2252.3	2229.0	2236.4	2228.5	2228.1
10°	2238.0	2214.8	2222.2	2214.2	2212.3
12.5°	2217.4	2194.2	2203.2	2193.7	2193.3
15°	2180.6	2159.3	2168.7	2160.7	2156.8
17.5°	2139.0	2115.8	2127.1	2116.0	2114.4
20°	2107.3	2084.1	2095.4	2079.6	2079.6
22.5°	2069.3	2046.0	2059.0	2038.4	2038.4
25°	2008.3	1985.0	1994.4	1976.6	1974.6
27.5°	1935.8	1912.9	1922.7	1902.5	1902.1
30°	1883.5	1862.2	1873.6	1851.8	1849.8
32.5°	1826.5	1806.7	1815.0	1793.2	1791.2
35°	1735.0	1717.5	1723.1	1703.2	1701.3
37.5°	1638.7	1620.9	1627.2	1610.2	1609.4
40°	1570.6	1559.0	1560.7	1546.7	1542.9
42.5°	1507.2	1494.0	1495.7	1481.8	1481.1
45°	1410.2	1400.5	1400.3	1386.4	1386.4
47.5°	1307.2	1299.8	1297.7	1286.2	1285.8
50°	1235.9	1230.1	1227.9	1218.0	1216.1
52.5°	1161.4	1158.7	1151.9	1143.6	1143.2
55°	1045.7	1041.9	1031.9	1025.9	1023.9
57.5°	920.2	912.4	901.2	892.5	894.0
60°	829.9	822.1	806.1	802.1	802.1
62.5°	742.7	733.4	717.4	711.9	715.0
65°	617.9	606.3	592.2	588.3	590.2
67.5°	504.6	494.2	478.9	478.9	477.3
70°	431.8	426.0	413.9	413.9	413.9
72.5°	366.8	364.1	355.3	355.3	353.7
75°	281.2	281.2	277.3	275.3	273.3
77.5°	210.7	211.5	209.5	207.5	204.0
80°	166.4	170.2	168.3	166.3	164.4
82.5°	125.2	129.0	128.7	125.2	124.8
85°	65.4	71.2	71.3	71.3	71.3
87.5°	17.4	23.6	25.4	25.4	26.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)