

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: P562851

Luminaire Tested: **SQ4-PC3-0U-100D-840-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562851
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PC3-0U-100D-840-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
DIRECT ONLY
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

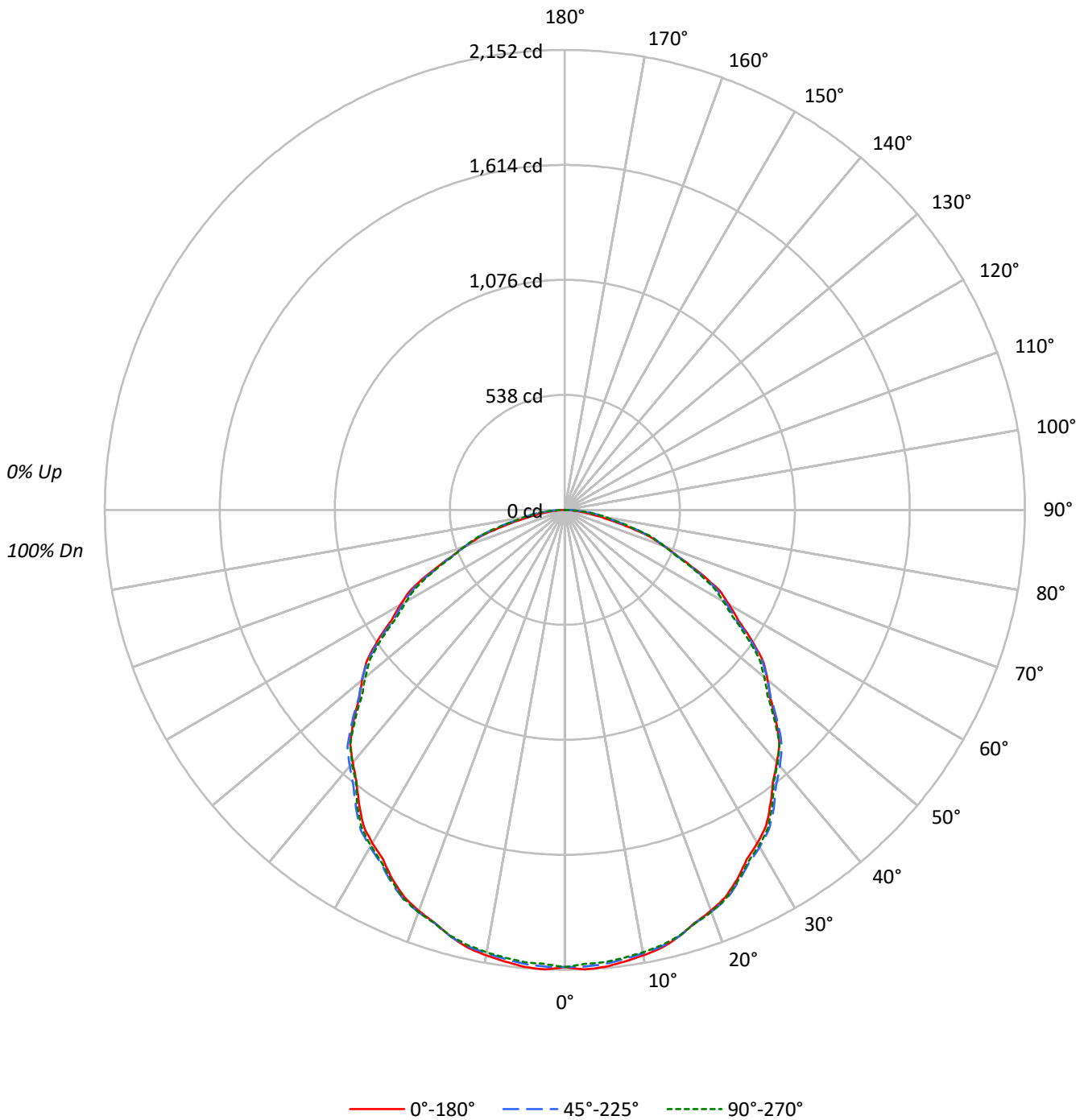
Lumens per Lamp: N/A
Luminaire Lumens: 5839.1 lumens
Efficiency: N/A
Efficacy: 105.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Direct

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	100	97	106	102	98	95	98	95	92	94	92	89	91	88	87	85
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71
3	91	80	72	66	88	79	71	65	76	70	64	73	68	63	71	66	62	60
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	53	51
5	77	64	55	48	74	63	54	48	61	53	48	59	52	47	57	51	47	44
6	71	58	49	42	69	57	48	42	55	47	42	53	46	41	52	46	41	39
7	66	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34
8	61	48	39	33	60	47	39	33	46	38	33	44	38	33	43	37	33	31
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28
10	54	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13160	13160	13160
5°	13259	13173	13124
10°	13226	13165	13128
15°	13157	13157	13144
20°	13071	13109	13109
25°	12947	13041	13001
30°	12790	12944	12888
35°	12599	12793	12703
40°	12391	12566	12439
45°	12166	12252	12062
50°	11847	11847	11658
55°	11472	11323	11153
60°	10918	10699	10528
65°	10092	9889	9802
70°	8835	8907	8871
75°	7108	7861	7909
80°	5051	6666	6737
85°	3077	5589	5589



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	202.5	3.5
10°-20°	581.1	10.0
20°-30°	879.9	15.1
30°-40°	1054.9	18.1
40°-50°	1075.7	18.4
50°-60°	939.0	16.1
60°-70°	672.2	11.5
70°-80°	346.2	5.9
80°-90°	87.5	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°	1663.5	28.5
0°-40°	2718.4	46.6
0°-60°	4733.1	81.1
0°-90°	5839.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5839.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2140	2140	2140	2140	2140	
5°	2147	2126	2134	2128	2126	204
15°	2066	2049	2066	2066	2064	583
25°	1908	1894	1922	1916	1916	878
35°	1678	1674	1704	1692	1692	1049
45°	1399	1395	1408	1391	1387	1077
55°	1070	1056	1056	1040	1040	954
65°	693	678	680	674	674	686
75°	299	313	331	333	333	323
85°	44	67	79	81	79	61
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2139.5	2139.5	2139.5	2139.5	2139.5
2.5°	2152.2	2133.6	2139.5	2134.6	2126.8
5°	2147.4	2126.1	2133.6	2127.6	2125.6
7.5°	2132.0	2110.7	2120.5	2116.5	2114.5
10°	2117.7	2096.4	2107.8	2103.8	2101.9
12.5°	2098.7	2078.9	2092.0	2088.0	2087.6
15°	2066.2	2048.8	2066.2	2066.2	2064.2
17.5°	2025.4	2009.5	2028.2	2029.3	2028.2
20°	1996.9	1979.4	2002.8	2000.9	2002.8
22.5°	1962.0	1947.7	1972.7	1967.6	1969.5
25°	1907.7	1894.2	1921.6	1915.7	1915.7
27.5°	1843.5	1833.9	1863.7	1857.4	1857.4
30°	1800.8	1791.1	1822.5	1814.6	1814.6
32.5°	1753.2	1746.6	1776.6	1767.1	1767.1
35°	1677.9	1674.1	1703.7	1691.8	1691.8
37.5°	1600.3	1596.8	1623.6	1609.3	1604.6
40°	1543.2	1541.3	1565.0	1549.2	1549.2
42.5°	1486.2	1484.2	1504.8	1485.8	1485.8
45°	1398.6	1394.7	1408.5	1390.6	1386.7
47.5°	1303.1	1299.2	1307.9	1288.4	1286.5
50°	1238.1	1234.3	1238.1	1220.3	1218.3
52.5°	1171.6	1164.6	1165.2	1147.4	1147.0
55°	1069.8	1056.2	1055.9	1040.0	1040.0
57.5°	962.0	944.2	945.7	932.2	930.3
60°	887.5	868.1	869.7	857.7	855.8
62.5°	814.6	792.1	796.8	783.3	782.9
65°	693.4	677.9	679.5	673.5	673.5
67.5°	576.9	562.5	572.9	568.1	567.8
70°	491.3	481.6	495.3	495.2	493.3
72.5°	412.1	411.7	428.7	428.7	429.9
75°	299.1	312.7	330.8	332.8	332.8
77.5°	199.7	223.7	243.7	244.4	244.1
80°	142.6	169.8	188.2	192.1	190.2
82.5°	96.7	125.3	140.7	144.6	142.6
85°	43.6	66.8	79.2	81.2	79.2
87.5°	12.7	26.6	31.7	31.6	28.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)