

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: P563085

Luminaire Tested: **SQ4-PC3-150U-050D-835-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563085
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-25, 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-PC3-150U-050D-835-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

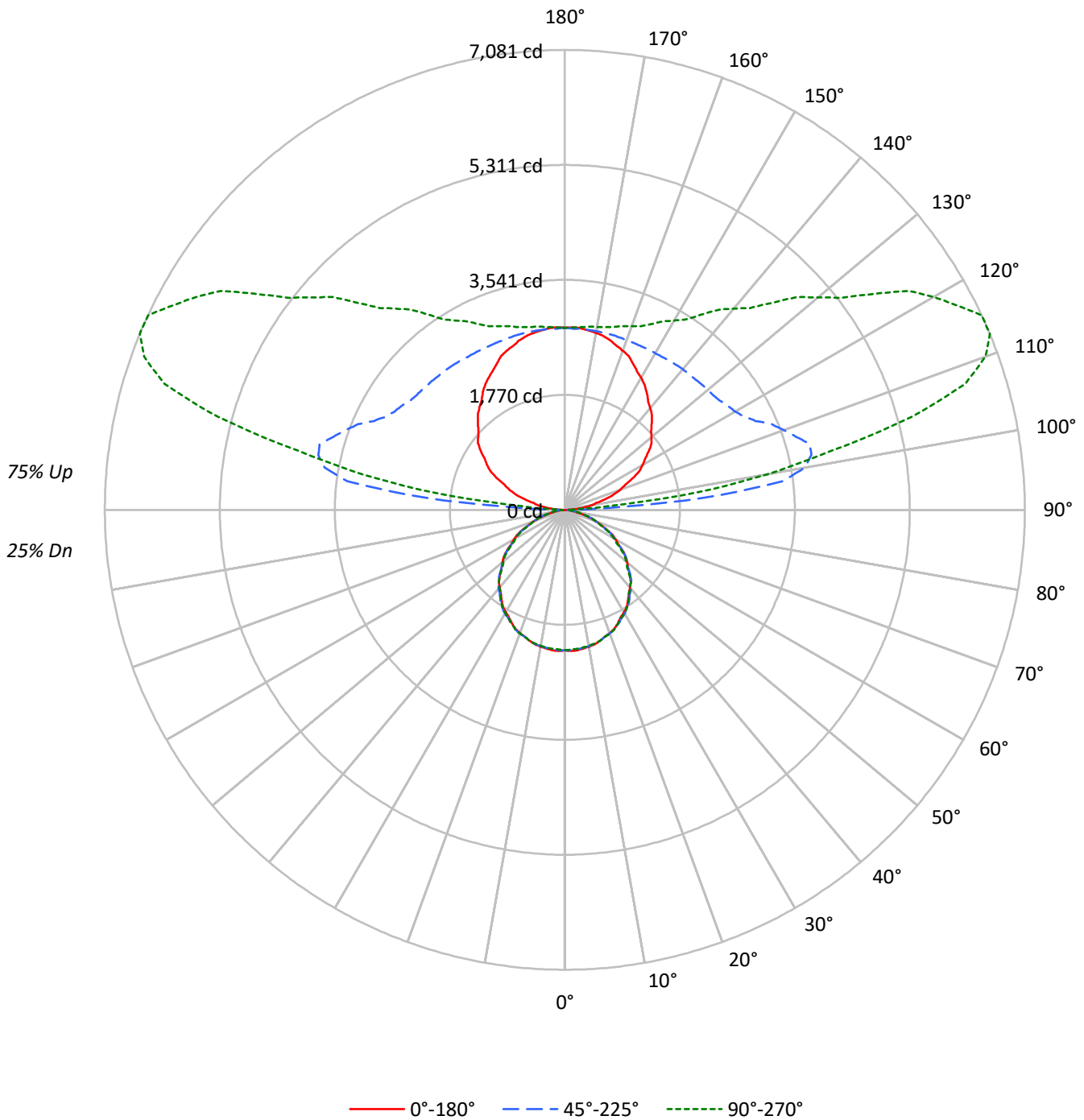
Lumens per Lamp: N/A
Luminaire Lumens: 23981.6 lumens
Efficiency: N/A
Efficacy: 142.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 168.9
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	101	101	101	101	90	90	90	90	69	69	69	50	50	50	33	33	33	25
1	92	88	84	81	82	78	75	73	61	59	57	44	43	42	29	28	28	21
2	84	77	71	66	74	69	64	59	53	50	47	39	37	35	26	24	23	17
3	76	67	60	55	68	60	54	50	47	43	39	34	32	29	23	21	20	15
4	70	59	52	46	62	53	47	42	41	37	33	30	27	25	20	18	17	13
5	64	53	45	39	57	47	41	36	37	32	29	27	24	22	18	16	15	11
6	59	47	39	34	52	42	36	31	33	28	25	24	21	19	16	14	13	10
7	54	42	35	29	48	38	31	27	30	25	22	22	19	16	15	13	11	8
8	50	38	31	26	44	34	28	24	27	22	19	20	17	15	14	12	10	8
9	47	35	28	23	41	31	25	21	25	20	17	18	15	13	13	11	9	7
10	43	32	25	20	39	29	23	19	23	18	15	17	14	12	12	10	8	6

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6653	6653	6653
5°	6703	6660	6635
10°	6687	6655	6637
15°	6651	6651	6645
20°	6608	6627	6627
25°	6545	6593	6573
30°	6466	6544	6515
35°	6369	6467	6422
40°	6264	6353	6288
45°	6150	6194	6098
50°	5990	5990	5894
55°	5799	5724	5638
60°	5519	5408	5322
65°	5101	4999	4956
70°	4466	4502	4484
75°	3594	3975	3998
80°	2554	3370	3406
85°	1556	2826	2826



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	204.7	0.9
10°-20°	587.5	2.4
20°-30°	889.7	3.7
30°-40°	1066.6	4.4
40°-50°	1087.6	4.5
50°-60°	949.4	4.0
60°-70°	679.7	2.8
70°-80°	350.1	1.5
80°-90°	94.4	0.4
90°-100°	1302.7	5.4
100°-110°	3522.1	14.7
110°-120°	3703.0	15.4
120°-130°	3007.8	12.5
130°-140°	2359.4	9.8
140°-150°	1810.8	7.6
150°-160°	1302.3	5.4
160°-170°	795.6	3.3
170°-180°	268.2	1.1
0°-30°	1681.9	7.0
0°-40°	2748.6	11.5
0°-60°	4785.6	20.0
0°-90°	5909.7	24.6
90°-120°	8527.7	35.6
90°-150°	15705.8	65.5
90°-180°	18072.0	75.4
0°-180°	23981.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2163	2163	2163	2163	2163	
5°	2171	2150	2157	2151	2149	206
15°	2089	2072	2089	2089	2087	589
25°	1929	1915	1943	1937	1937	888
35°	1696	1693	1723	1711	1711	1061
45°	1414	1410	1424	1406	1402	1089
55°	1082	1068	1068	1052	1052	964
65°	701	685	687	681	681	693
75°	302	316	334	336	336	327
85°	44	68	80	82	80	60
90°	6	18	39	42	39	15
95°	202	710	2166	1121	667	212
105°	655	1012	3907	5764	5528	690
115°	1153	1409	3240	6273	7081	1138
125°	1578	1808	2921	4929	5790	1407
135°	1892	2116	2842	3980	4505	1462
145°	2200	2365	2803	3406	3666	1376
155°	2483	2580	2779	3056	3156	1145
165°	2703	2730	2791	2900	2915	762
175°	2806	2803	2794	2830	2824	266
180°	2803	2803	2803	2803	2803	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2163.2	2163.2	2163.2	2163.2	2163.2
2.5°	2176.1	2157.3	2163.2	2158.3	2150.4
5°	2171.2	2149.7	2157.2	2151.2	2149.2
7.5°	2155.6	2134.1	2144.0	2140.0	2138.0
10°	2141.2	2119.7	2131.2	2127.1	2125.2
12.5°	2122.0	2102.0	2115.2	2111.2	2110.8
15°	2089.1	2071.5	2089.1	2089.1	2087.1
17.5°	2047.9	2031.8	2050.7	2051.8	2050.7
20°	2019.0	2001.4	2025.0	2023.1	2025.0
22.5°	1983.8	1969.3	1994.6	1989.4	1991.4
25°	1928.9	1915.2	1942.9	1936.9	1936.9
27.5°	1864.0	1854.2	1884.4	1878.0	1878.0
30°	1820.7	1810.9	1842.8	1834.7	1834.7
32.5°	1772.7	1766.0	1796.3	1786.7	1786.7
35°	1696.5	1692.6	1722.6	1710.6	1710.6
37.5°	1618.0	1614.5	1641.7	1627.1	1622.4
40°	1560.3	1558.4	1582.4	1566.3	1566.3
42.5°	1502.6	1500.7	1521.5	1502.2	1502.2
45°	1414.1	1410.2	1424.1	1406.0	1402.1
47.5°	1317.6	1313.7	1322.4	1302.7	1300.7
50°	1251.9	1248.0	1251.9	1233.8	1231.8
52.5°	1184.6	1177.5	1178.2	1160.1	1159.7
55°	1081.6	1067.9	1067.6	1051.6	1051.6
57.5°	972.7	954.6	956.2	942.6	940.6
60°	897.3	877.8	879.3	867.3	865.3
62.5°	823.6	800.9	805.6	792.0	791.6
65°	701.0	685.4	687.0	681.0	681.0
67.5°	583.3	568.8	579.3	574.5	574.1
70°	496.7	487.0	500.7	500.7	498.7
72.5°	416.6	416.2	433.4	433.5	434.7
75°	302.5	316.2	334.5	336.5	336.5
77.5°	201.9	226.2	246.4	247.2	246.8
80°	144.2	171.6	190.3	194.2	192.3
82.5°	97.7	126.7	142.2	146.2	144.2
85°	44.1	67.6	80.1	82.1	80.1
87.5°	14.0	30.5	39.9	40.4	36.7
90°	6.0	17.8	39.2	42.2	39.2
92.5°	85.7	312.3	616.1	267.5	193.7
95°	202.2	709.6	2166.4	1121.1	666.8
97.5°	324.7	813.8	3376.9	2794.6	2052.3
100°	416.4	855.9	3753.4	3914.4	3165.0
102.5°	500.9	914.5	3886.2	4763.5	4203.0
105°	654.7	1011.7	3907.3	5763.5	5527.5
107.5°	797.1	1122.8	3736.5	6387.4	6465.9
110°	908.2	1203.2	3584.4	6554.9	6888.3

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1007.1	1283.3	3444.4	6521.4	7081.4
115°	1152.6	1409.2	3240.5	6273.0	7081.4
117.5°	1295.0	1535.7	3105.9	5893.5	6809.8
120°	1381.9	1617.9	3026.3	5621.2	6556.4
122.5°	1463.9	1695.2	2978.0	5329.3	6271.6
125°	1578.0	1808.1	2920.7	4928.6	5790.0
127.5°	1683.0	1909.0	2886.9	4601.6	5359.2
130°	1740.9	1974.0	2872.4	4399.5	5084.0
132.5°	1801.3	2032.0	2857.9	4217.3	4847.4
135°	1891.8	2116.0	2842.2	3979.6	4504.7
137.5°	1982.9	2194.7	2828.9	3786.7	4214.4
140°	2045.7	2243.3	2824.1	3662.5	4043.1
142.5°	2106.0	2291.9	2814.4	3550.4	3883.7
145°	2199.5	2364.7	2803.0	3406.3	3665.9
147.5°	2284.6	2431.0	2789.7	3275.8	3475.2
150°	2347.4	2477.2	2784.9	3204.9	3364.2
152.5°	2405.3	2518.6	2782.5	3139.1	3270.0
155°	2483.2	2580.5	2778.8	3055.7	3156.0
157.5°	2564.0	2631.9	2779.4	2997.6	3063.7
160°	2609.9	2665.9	2781.9	2960.9	3008.2
162.5°	2646.1	2692.7	2784.3	2931.7	2967.1
165°	2703.4	2730.0	2790.9	2899.9	2914.6
167.5°	2742.6	2760.9	2791.5	2872.5	2879.6
170°	2766.8	2775.6	2793.9	2860.3	2860.3
172.5°	2786.1	2787.9	2793.9	2845.8	2843.4
175°	2806.0	2803.0	2793.9	2830.0	2824.1
177.5°	2812.6	2805.6	2793.3	2817.3	2810.2
180°	2803.0	2803.0	2803.0	2803.0	2803.0

(END OF REPORT)