

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: P562975

Luminaire Tested: **SQ4-PC3-100U-125D-930-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562975
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-23, 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-PC3-100U-125D-930-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

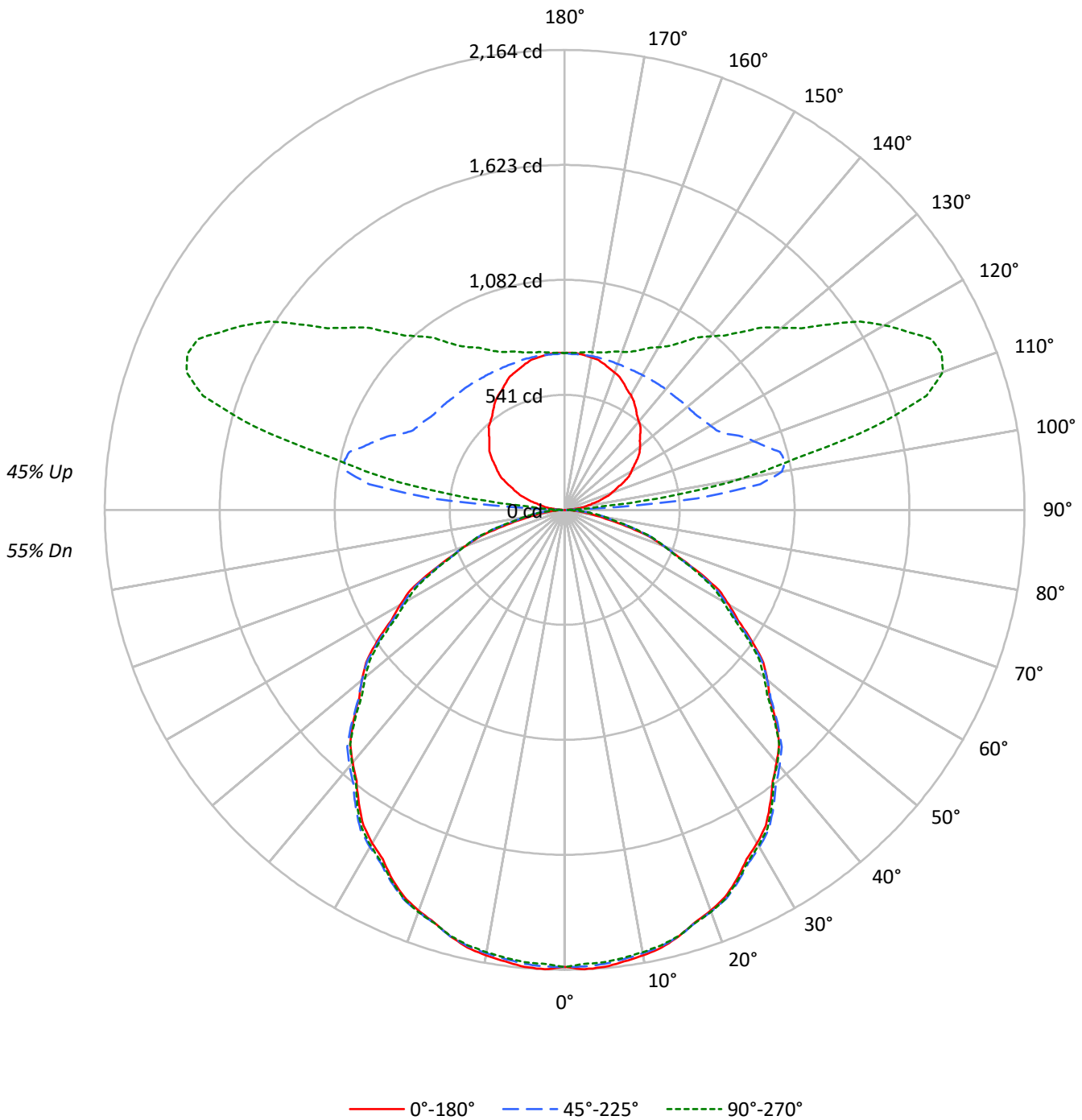
Lumens per Lamp: N/A
Luminaire Lumens: 10666.1 lumens
Efficiency: N/A
Efficacy: 99.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 107.3
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	50	30	10	0	
RCR																						
0	108	108	108	108	101	101	101	101	86	86	86	73	73	73	61	61	61	55				
1	99	95	91	87	92	88	85	82	76	73	71	64	63	61	54	53	51	47				
2	90	83	76	71	83	77	72	67	66	62	59	56	54	51	47	45	43	39				
3	82	73	65	59	76	68	61	56	58	53	49	50	46	43	42	39	37	33				
4	75	64	56	50	70	60	53	47	52	46	42	44	40	37	37	34	32	28				
5	69	57	49	43	64	54	46	41	46	41	36	40	35	32	34	30	28	24				
6	64	51	43	37	59	48	41	35	42	36	32	36	31	28	31	27	24	21				
7	59	46	38	33	54	43	36	31	38	32	28	33	28	25	28	24	22	19				
8	55	42	34	29	51	39	32	27	35	29	25	30	25	22	26	22	19	17				
9	51	38	31	26	47	36	29	25	32	26	22	28	23	20	24	20	17	15				
10	47	35	28	23	44	33	26	22	29	24	20	25	21	18	22	18	16	14				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13230	13230	13230
5°	13330	13244	13195
10°	13298	13235	13198
15°	13228	13228	13215
20°	13141	13180	13180
25°	13017	13111	13070
30°	12858	13014	12957
35°	12666	12861	12772
40°	12457	12633	12506
45°	12231	12318	12128
50°	11911	11911	11721
55°	11533	11384	11213
60°	10977	10755	10584
65°	10146	9942	9856
70°	8882	8954	8918
75°	7146	7904	7952
80°	5079	6702	6773
85°	3091	5625	5625



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	203.6	1.9
10°-20°	584.2	5.5
20°-30°	884.7	8.3
30°-40°	1060.6	9.9
40°-50°	1081.5	10.1
50°-60°	944.0	8.9
60°-70°	675.9	6.3
70°-80°	348.1	3.3
80°-90°	89.5	0.8
90°-100°	345.5	3.2
100°-110°	953.9	8.9
110°-120°	983.8	9.2
120°-130°	790.5	7.4
130°-140°	621.3	5.8
140°-150°	476.5	4.5
150°-160°	342.5	3.2
160°-170°	209.4	2.0
170°-180°	70.6	0.7
0°-30°	1672.4	15.7
0°-40°	2733.0	25.6
0°-60°	4758.5	44.6
0°-90°	5872.0	55.1
90°-120°	2283.2	21.4
90°-150°	4171.5	39.1
90°-180°	4794.0	44.9
0°-180°	10666.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2151	2151	2151	2151	2151	
5°	2159	2138	2145	2139	2137	205
15°	2077	2060	2077	2077	2075	586
25°	1918	1904	1932	1926	1926	883
35°	1687	1683	1713	1701	1701	1055
45°	1406	1402	1416	1398	1394	1082
55°	1076	1062	1062	1046	1046	959
65°	697	682	683	677	677	689
75°	301	314	333	335	335	325
85°	44	67	80	82	80	60
90°	2	5	9	11	12	5
95°	51	187	627	258	168	54
105°	170	262	1050	1602	1509	181
115°	305	368	845	1673	1903	299
125°	418	476	766	1297	1522	372
135°	503	557	745	1050	1184	389
145°	583	624	736	894	962	365
155°	658	680	730	802	828	303
165°	712	721	733	762	767	201
175°	738	739	734	745	742	70
180°	738	738	738	738	738	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2151.0	2151.0	2151.0	2151.0	2151.0
2.5°	2163.7	2145.1	2151.0	2146.0	2138.3
5°	2159.0	2137.5	2145.0	2139.0	2137.1
7.5°	2143.4	2122.0	2131.9	2127.9	2125.9
10°	2129.1	2107.7	2119.1	2115.1	2113.2
12.5°	2110.0	2090.1	2103.2	2099.2	2098.8
15°	2077.3	2059.8	2077.3	2077.3	2075.3
17.5°	2036.3	2020.3	2039.1	2040.2	2039.1
20°	2007.6	1990.1	2013.6	2011.6	2013.6
22.5°	1972.5	1958.1	1983.3	1978.2	1980.1
25°	1918.0	1904.3	1931.9	1925.9	1925.9
27.5°	1853.4	1843.7	1873.8	1867.4	1867.4
30°	1810.4	1800.7	1832.3	1824.4	1824.4
32.5°	1762.6	1756.0	1786.1	1776.6	1776.6
35°	1686.9	1683.0	1712.8	1700.9	1700.9
37.5°	1608.9	1605.4	1632.4	1617.9	1613.3
40°	1551.5	1549.6	1573.4	1557.5	1557.5
42.5°	1494.2	1492.2	1512.9	1493.8	1493.8
45°	1406.1	1402.2	1416.1	1398.1	1394.2
47.5°	1310.1	1306.2	1314.9	1295.3	1293.4
50°	1244.8	1240.9	1244.8	1226.8	1224.9
52.5°	1177.9	1170.9	1171.5	1153.6	1153.2
55°	1075.5	1061.9	1061.6	1045.6	1045.6
57.5°	967.2	949.2	950.8	937.2	935.3
60°	892.3	872.8	874.3	862.3	860.4
62.5°	819.0	796.4	801.0	787.5	787.1
65°	697.1	681.5	683.1	677.2	677.2
67.5°	580.0	565.6	576.0	571.2	570.8
70°	493.9	484.2	497.9	497.9	495.9
72.5°	414.3	413.9	431.0	431.0	432.2
75°	300.7	314.4	332.6	334.6	334.6
77.5°	200.8	224.9	245.0	245.8	245.4
80°	143.4	170.7	189.2	193.1	191.2
82.5°	97.2	126.0	141.4	145.3	143.4
85°	43.8	67.2	79.7	81.6	79.7
87.5°	13.2	27.7	33.8	33.9	31.0
90°	2.4	4.7	9.4	10.7	11.8
92.5°	21.2	88.2	157.7	57.6	44.9
95°	50.8	187.0	626.9	257.7	167.6
97.5°	84.1	209.4	928.6	714.9	517.8
100°	108.6	222.9	1040.0	1047.4	851.2
102.5°	132.2	238.2	1061.8	1294.1	1108.0
105°	170.0	262.3	1049.5	1602.2	1508.7
107.5°	210.1	292.3	990.9	1750.8	1784.9
110°	238.5	312.3	945.6	1782.7	1893.6

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	264.0	335.1	903.1	1757.5	1920.9
115°	304.6	368.1	845.3	1673.3	1903.0
117.5°	340.0	403.2	807.2	1554.8	1816.1
120°	363.6	425.9	792.1	1474.6	1737.7
122.5°	386.3	445.8	779.9	1399.6	1649.0
125°	417.9	475.6	766.2	1296.6	1521.7
127.5°	444.8	502.5	758.1	1209.5	1403.6
130°	462.8	520.5	754.4	1156.2	1332.8
132.5°	479.8	534.7	750.6	1111.4	1271.4
135°	502.9	557.2	744.9	1050.2	1184.1
137.5°	528.9	578.3	742.1	998.7	1113.0
140°	543.0	591.5	740.2	964.4	1064.8
142.5°	559.1	603.9	738.3	933.9	1022.3
145°	583.2	623.6	735.5	894.0	962.1
147.5°	606.3	641.6	732.9	860.4	913.3
150°	623.3	652.2	731.9	840.3	883.0
152.5°	636.5	663.5	731.0	823.2	858.5
155°	657.6	679.5	729.6	802.2	827.5
157.5°	676.9	693.8	729.8	786.9	804.2
160°	688.2	703.2	730.7	778.3	790.9
162.5°	697.7	710.8	731.7	770.6	780.6
165°	711.9	721.1	733.1	761.6	767.3
167.5°	722.7	728.3	734.3	756.0	757.9
170°	728.4	733.0	734.3	753.2	753.2
172.5°	733.1	735.9	734.3	749.4	748.5
175°	737.8	739.0	734.3	744.9	742.5
177.5°	739.7	738.8	734.0	740.6	738.8
180°	737.8	737.8	737.8	737.8	737.8

(END OF REPORT)