

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: P562592

Luminaire Tested: **SQ4-PC3-025U-125D-930-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562592
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, 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-PC3-025U-125D-930-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

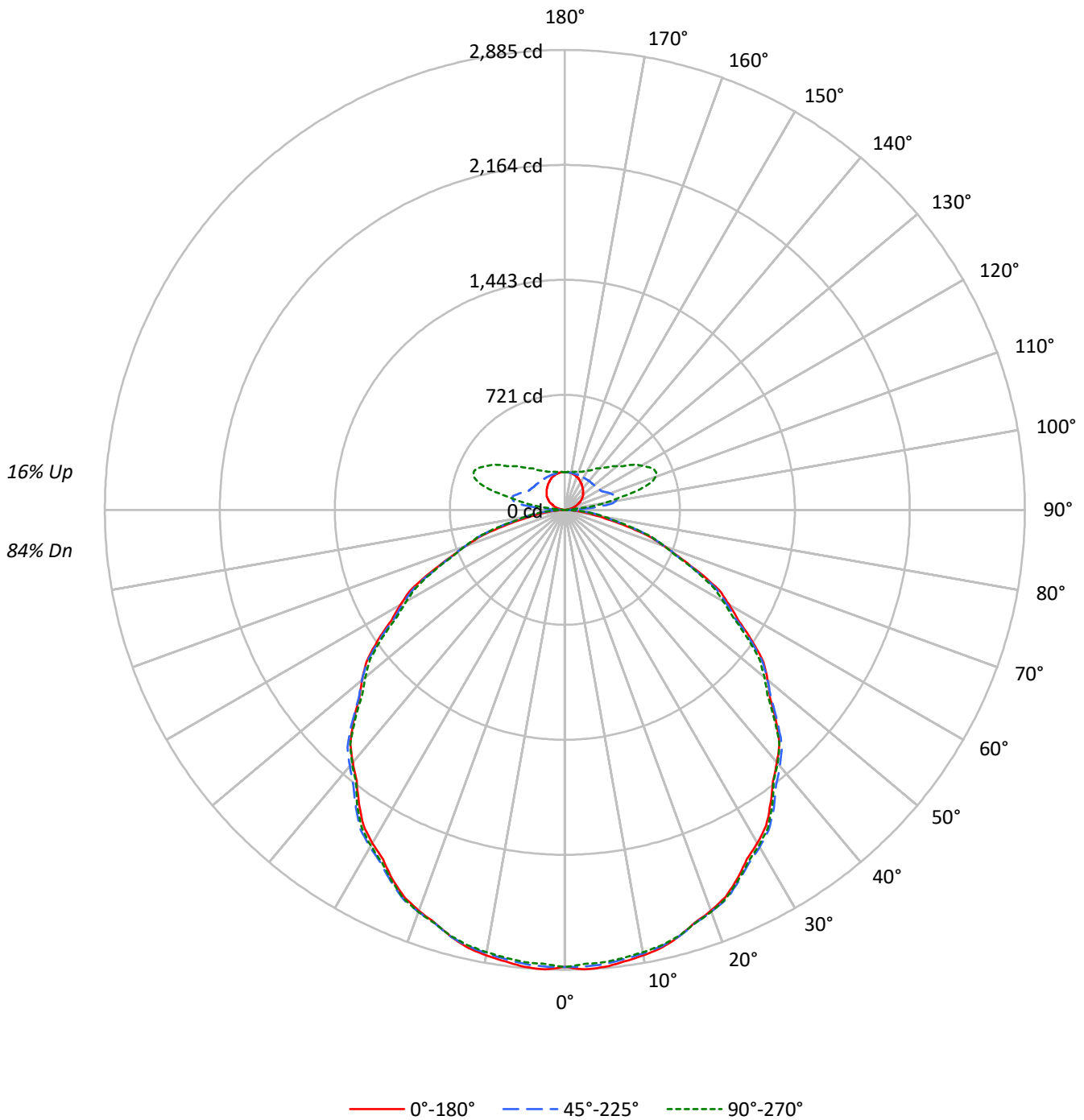
Lumens per Lamp: N/A
Luminaire Lumens: 9365.9 lumens
Efficiency: N/A
Efficacy: 92.2 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 101.6
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	115	115	115	115	111	111	111	111	102	102	102	94	94	94	87	87	87	84
1	105	101	97	93	101	97	93	90	90	87	84	83	81	79	77	75	74	71
2	96	88	82	76	92	85	79	74	79	74	70	73	69	66	68	65	62	59
3	88	78	70	64	84	75	68	62	70	64	59	65	60	56	60	56	53	50
4	80	69	60	54	77	66	59	53	62	55	50	58	52	48	54	49	46	43
5	74	61	53	46	71	59	51	45	55	49	43	52	46	42	48	44	40	37
6	68	55	47	40	65	53	45	40	50	43	38	47	41	36	44	39	35	33
7	63	50	42	36	60	48	41	35	45	39	34	43	37	32	40	35	31	29
8	59	46	37	32	56	44	37	31	42	35	30	39	33	29	37	32	28	26
9	55	42	34	28	53	41	33	28	38	32	27	36	30	26	34	29	25	23
10	51	38	31	26	49	37	30	25	35	29	24	33	28	24	31	26	23	21

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	13071
30°	12858	13014	12957
35°	12667	12861	12771
40°	12458	12634	12505
45°	12231	12318	12127
50°	11911	11911	11721
55°	11533	11384	11213
60°	10976	10756	10584
65°	10145	9943	9856
70°	8883	8955	8918
75°	7147	7905	7951
80°	5079	6703	6772
85°	3091	5621	5621



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	271.4	2.9
10°-20°	778.9	8.3
20°-30°	1179.6	12.6
30°-40°	1414.1	15.1
40°-50°	1441.9	15.4
50°-60°	1258.7	13.4
60°-70°	901.1	9.6
70°-80°	464.1	5.0
80°-90°	118.6	1.3
90°-100°	115.6	1.2
100°-110°	303.9	3.2
110°-120°	315.1	3.4
120°-130°	252.8	2.7
130°-140°	198.3	2.1
140°-150°	152.2	1.6
150°-160°	109.6	1.2
160°-170°	67.1	0.7
170°-180°	22.7	0.2
0°-30°	2229.9	23.8
0°-40°	3644.0	38.9
0°-60°	6344.7	67.7
0°-90°	7828.6	83.6
90°-120°	734.6	7.8
90°-150°	1337.9	14.3
90°-180°	1537.0	16.4
0°-180°	9365.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2868	2868	2868	2868	2868	
5°	2879	2850	2860	2852	2849	273
15°	2770	2746	2770	2770	2767	781
25°	2557	2539	2576	2568	2568	1177
35°	2249	2244	2284	2268	2268	1407
45°	1875	1870	1888	1864	1859	1443
55°	1434	1416	1415	1394	1394	1278
65°	929	909	911	903	903	919
75°	401	419	444	446	446	433
85°	58	90	106	109	106	79
90°	2	4	12	6	6	4
95°	15	60	199	103	70	17
105°	55	83	336	510	476	58
115°	97	118	269	537	613	96
125°	135	152	245	414	488	120
135°	161	178	237	334	379	125
145°	187	199	234	285	307	117
155°	211	217	234	257	264	97
165°	228	231	234	243	246	64
175°	237	237	236	239	239	23
180°	237	237	237	237	237	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2868.0	2868.0	2868.0	2868.0	2868.0
2.5°	2885.0	2860.1	2868.0	2861.4	2851.0
5°	2878.6	2850.1	2860.0	2852.0	2849.4
7.5°	2857.9	2829.4	2842.5	2837.1	2834.5
10°	2838.8	2810.2	2825.5	2820.1	2817.5
12.5°	2813.3	2786.8	2804.3	2798.9	2798.4
15°	2769.7	2746.4	2769.7	2769.7	2767.1
17.5°	2715.0	2693.8	2718.8	2720.3	2718.8
20°	2676.8	2653.4	2684.8	2682.2	2684.8
22.5°	2630.1	2610.9	2644.4	2637.6	2640.2
25°	2557.3	2539.1	2575.9	2567.9	2567.9
27.5°	2471.3	2458.3	2498.3	2489.9	2489.9
30°	2413.9	2400.9	2443.1	2432.5	2432.5
32.5°	2350.2	2341.3	2381.5	2368.8	2368.8
35°	2249.3	2244.1	2283.8	2267.8	2267.8
37.5°	2145.2	2140.5	2176.5	2157.2	2151.0
40°	2068.7	2066.1	2097.9	2076.6	2076.6
42.5°	1992.2	1989.6	2017.2	1991.7	1991.7
45°	1874.8	1869.6	1888.1	1864.1	1858.9
47.5°	1746.8	1741.6	1753.2	1727.1	1724.5
50°	1659.7	1654.5	1659.7	1635.8	1633.2
52.5°	1570.5	1561.1	1562.0	1538.1	1537.6
55°	1434.0	1415.8	1415.4	1394.2	1394.2
57.5°	1289.5	1265.7	1267.8	1249.6	1247.1
60°	1189.7	1163.7	1165.8	1149.8	1147.2
62.5°	1092.0	1061.8	1068.1	1050.0	1049.5
65°	929.4	908.7	910.9	902.9	902.9
67.5°	773.3	754.1	768.0	761.6	761.1
70°	658.6	645.6	663.9	663.8	661.2
72.5°	552.4	551.8	574.7	574.7	576.3
75°	401.0	419.2	443.5	446.1	446.1
77.5°	267.7	299.9	326.6	327.7	327.2
80°	191.2	227.6	252.3	257.5	254.9
82.5°	129.6	168.0	188.5	193.8	191.2
85°	58.4	89.6	106.2	108.8	106.2
87.5°	17.3	36.6	44.9	43.6	39.5
90°	1.5	4.5	12.2	6.1	6.1
92.5°	6.4	30.8	68.1	30.2	19.5
95°	15.2	59.8	199.2	102.6	69.9
97.5°	26.5	65.7	298.0	237.0	174.5
100°	35.0	70.6	328.4	332.8	258.5
102.5°	42.3	75.6	336.9	414.5	350.9
105°	54.7	83.0	336.0	510.1	475.9
107.5°	67.5	93.7	316.8	559.7	568.0
110°	76.0	99.8	301.0	572.5	608.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	84.5	107.1	286.4	564.4	619.1
115°	97.3	118.1	269.1	536.9	612.7
117.5°	109.8	128.8	257.2	498.8	582.9
120°	117.1	134.9	252.4	473.2	554.9
122.5°	124.4	142.2	248.7	447.6	528.2
125°	135.3	151.7	244.8	413.7	488.0
127.5°	144.1	160.8	241.4	386.4	449.1
130°	149.0	166.8	240.2	369.2	427.2
132.5°	153.9	171.7	239.0	354.5	406.5
135°	161.2	177.5	237.2	334.0	378.6
137.5°	168.8	184.8	236.9	318.6	355.2
140°	174.8	189.7	235.7	306.4	340.6
142.5°	179.7	193.4	235.7	297.7	327.2
145°	187.0	198.9	234.1	284.8	307.1
147.5°	194.3	205.9	234.1	274.1	292.5
150°	199.2	209.6	234.1	267.9	282.8
152.5°	204.0	212.1	234.1	263.0	274.3
155°	211.3	217.3	234.1	257.1	264.5
157.5°	216.8	222.5	234.1	251.9	257.2
160°	220.5	224.9	234.1	249.4	252.4
162.5°	224.1	227.4	234.1	247.0	249.9
165°	228.1	231.0	234.1	243.3	246.3
167.5°	231.7	233.2	235.7	241.8	243.0
170°	234.1	235.6	235.7	241.7	241.7
172.5°	235.3	235.6	235.7	240.5	239.3
175°	237.2	237.2	235.7	238.7	238.7
177.5°	237.2	237.2	236.0	238.4	237.2
180°	237.2	237.2	237.2	237.2	237.2

(END OF REPORT)