

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: P563057

Luminaire Tested: **SQ4-PC3-125U-125D-830-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563057
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-24, 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-PC3-125U-125D-830-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

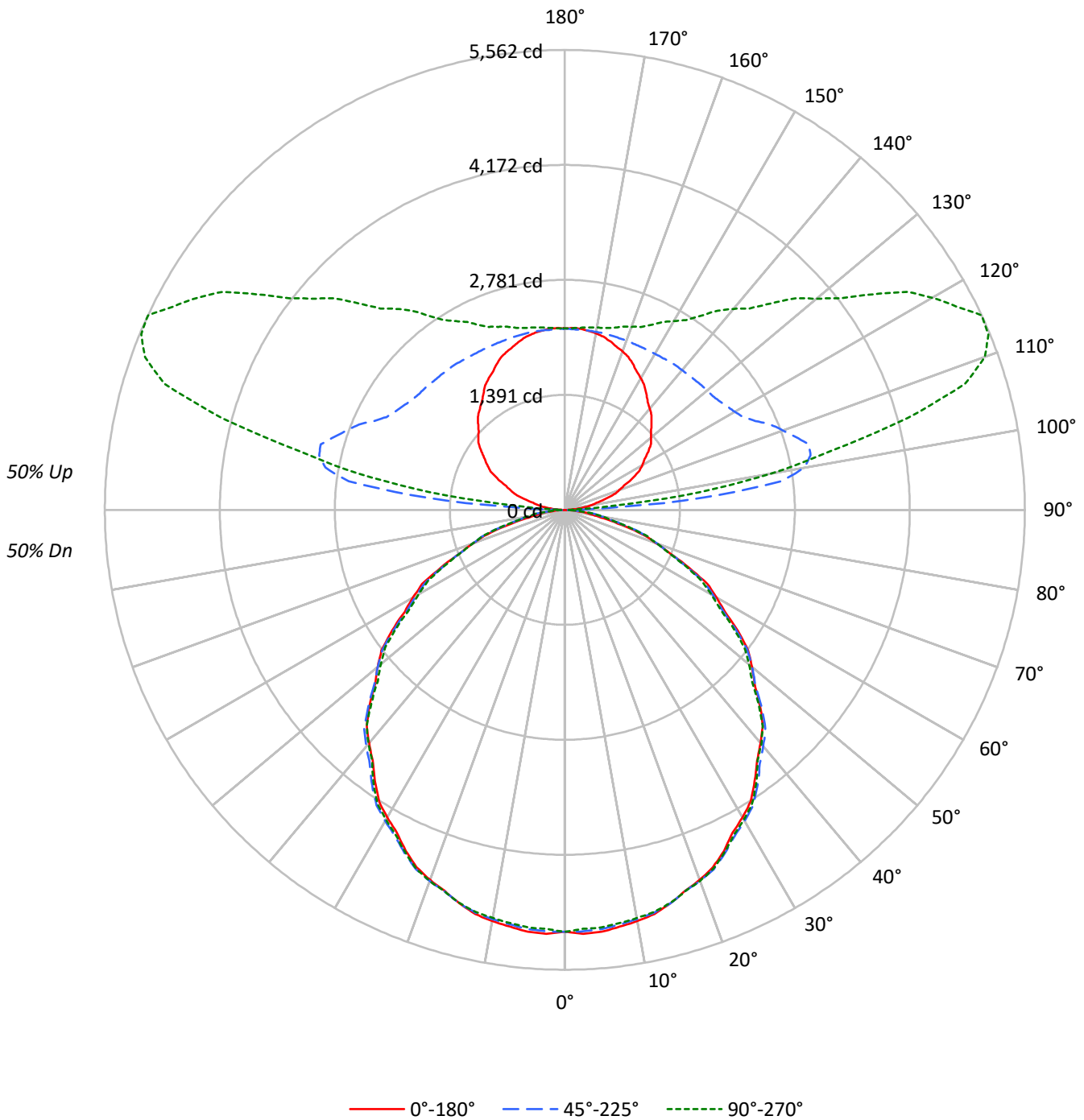
Lumens per Lamp: N/A
Luminaire Lumens: 28088.3 lumens
Efficiency: N/A
Efficacy: 120.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 233.8
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	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56	50
1	98	93	90	86	90	86	83	80	73	71	68	61	59	57	49	48	47	42
2	89	82	75	70	82	75	70	66	64	60	57	53	50	48	43	42	40	35
3	81	72	64	59	75	66	60	55	56	52	48	47	44	41	38	36	34	30
4	74	63	56	49	68	59	52	46	50	45	40	42	38	35	34	31	29	25
5	68	56	48	42	63	52	45	40	45	39	35	38	33	30	31	28	25	22
6	63	51	42	37	58	47	40	35	40	35	30	34	30	26	28	25	22	19
7	58	46	38	32	53	42	35	30	36	31	27	31	26	23	26	22	20	17
8	54	41	34	28	49	39	32	27	33	28	24	28	24	21	23	20	18	15
9	50	38	30	25	46	35	28	24	30	25	21	26	22	19	22	18	16	14
10	47	35	27	23	43	32	26	21	28	23	19	24	20	17	20	17	14	12

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15693	15693	15693
5°	15812	15710	15651
10°	15773	15699	15655
15°	15690	15690	15675
20°	15587	15633	15633
25°	15440	15552	15504
30°	15252	15437	15369
35°	15025	15256	15149
40°	14777	14985	14834
45°	14508	14611	14385
50°	14129	14129	13903
55°	13680	13503	13300
60°	13019	12758	12554
65°	12034	11793	11691
70°	10537	10621	10579
75°	8478	9376	9432
80°	6025	7950	8033
85°	3666	6669	6669



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	482.9	1.7
10°-20°	1385.9	4.9
20°-30°	2098.7	7.5
30°-40°	2516.1	9.0
40°-50°	2565.6	9.1
50°-60°	2239.6	8.0
60°-70°	1603.3	5.7
70°-80°	825.8	2.9
80°-90°	214.0	0.8
90°-100°	1025.9	3.7
100°-110°	2763.4	9.8
110°-120°	2900.1	10.3
120°-130°	2353.3	8.4
130°-140°	1845.6	6.6
140°-150°	1417.0	5.0
150°-160°	1018.8	3.6
160°-170°	622.4	2.2
170°-180°	209.9	0.7
0°-30°	3967.5	14.1
0°-40°	6483.6	23.1
0°-60°	11288.7	40.2
0°-90°	13931.9	49.6
90°-120°	6689.3	23.8
90°-150°	12305.3	43.8
90°-180°	14156.0	50.4
0°-180°	28088.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5103	5103	5103	5103	5103	
5°	5122	5071	5089	5074	5070	486
15°	4928	4886	4928	4928	4923	1390
25°	4550	4518	4583	4569	4569	2094
35°	4002	3993	4063	4035	4035	2503
45°	3336	3326	3359	3317	3307	2568
55°	2551	2519	2518	2481	2481	2274
65°	1654	1617	1621	1606	1606	1636
75°	714	746	789	794	794	771
85°	104	159	189	194	189	141
90°	6	16	34	36	36	15
95°	156	558	1682	860	595	163
105°	511	795	3056	4572	4291	537
115°	902	1104	2545	4917	5562	888
125°	1232	1415	2285	3862	4545	1100
135°	1483	1655	2221	3116	3528	1145
145°	1715	1849	2193	2664	2861	1076
155°	1947	2018	2173	2390	2467	896
165°	2112	2136	2182	2269	2280	596
175°	2196	2193	2184	2215	2210	209
180°	2193	2193	2193	2193	2193	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5102.9	5102.9	5102.9	5102.9	5102.9
2.5°	5133.1	5088.8	5102.9	5091.1	5072.6
5°	5121.8	5070.9	5088.7	5074.4	5069.8
7.5°	5084.9	5034.1	5057.5	5048.0	5043.3
10°	5050.9	5000.1	5027.3	5017.7	5013.1
12.5°	5005.5	4958.4	4989.5	4980.0	4979.1
15°	4928.0	4886.5	4928.0	4927.9	4923.3
17.5°	4830.7	4792.8	4837.3	4840.1	4837.3
20°	4762.7	4721.1	4776.8	4772.2	4776.8
22.5°	4679.5	4645.3	4705.0	4692.9	4697.5
25°	4550.1	4517.7	4583.1	4569.0	4569.0
27.5°	4397.0	4373.9	4445.2	4430.0	4430.0
30°	4294.9	4271.8	4346.9	4328.0	4328.0
32.5°	4181.5	4165.8	4237.3	4214.6	4214.6
35°	4002.0	3992.7	4063.4	4035.0	4035.0
37.5°	3816.8	3808.4	3872.5	3838.2	3827.1
40°	3680.7	3676.1	3732.7	3694.9	3694.9
42.5°	3544.6	3540.0	3589.0	3543.7	3543.7
45°	3335.8	3326.5	3359.4	3316.7	3307.4
47.5°	3108.0	3098.8	3119.4	3073.0	3068.3
50°	2953.0	2943.8	2953.0	2910.4	2905.8
52.5°	2794.3	2777.7	2779.2	2736.6	2735.7
55°	2551.4	2519.1	2518.4	2480.6	2480.6
57.5°	2294.4	2251.9	2255.7	2223.4	2218.8
60°	2116.7	2070.5	2074.2	2045.8	2041.1
62.5°	1942.9	1889.3	1900.3	1868.2	1867.3
65°	1653.7	1616.7	1620.6	1606.5	1606.5
67.5°	1375.9	1341.7	1366.4	1355.1	1354.1
70°	1171.8	1148.7	1181.2	1181.1	1176.5
72.5°	982.8	981.8	1022.5	1022.5	1025.3
75°	713.5	745.8	789.1	793.8	793.8
77.5°	476.3	533.6	581.2	583.0	582.1
80°	340.2	404.9	448.9	458.2	453.6
82.5°	230.6	298.9	335.5	344.8	340.2
85°	103.9	159.4	189.0	193.6	189.0
87.5°	31.4	66.8	82.3	82.7	75.3
90°	5.6	16.5	33.5	36.3	36.3
92.5°	68.2	240.8	476.0	229.2	159.2
95°	156.4	558.0	1681.7	860.0	595.0
97.5°	249.7	638.7	2637.6	2203.5	1661.6
100°	321.3	670.9	2941.6	3077.7	2553.3
102.5°	390.5	716.1	3042.1	3732.4	3301.9
105°	511.2	795.3	3056.1	4572.2	4290.8
107.5°	625.2	878.7	2925.9	5003.7	5076.4
110°	701.2	941.5	2807.5	5137.7	5402.6

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	781.6	1004.5	2693.5	5108.0	5543.4
115°	902.3	1104.4	2544.9	4917.3	5561.9
117.5°	1012.4	1201.9	2429.8	4612.7	5330.6
120°	1083.9	1266.9	2371.7	4394.2	5131.7
122.5°	1146.5	1327.3	2329.2	4170.7	4906.0
125°	1231.9	1414.9	2285.1	3862.2	4545.0
127.5°	1314.1	1494.3	2257.2	3590.1	4199.8
130°	1363.2	1543.5	2246.0	3434.2	3969.6
132.5°	1412.4	1590.5	2234.8	3296.9	3788.6
135°	1483.4	1655.4	2220.8	3115.8	3528.2
137.5°	1551.0	1715.9	2213.6	2962.1	3300.8
140°	1597.9	1756.3	2206.9	2867.5	3173.4
142.5°	1647.1	1794.5	2202.4	2779.3	3037.1
145°	1715.2	1849.1	2192.9	2663.9	2860.6
147.5°	1789.0	1905.3	2183.4	2566.8	2721.4
150°	1838.1	1939.2	2178.9	2505.9	2634.3
152.5°	1882.8	1970.8	2176.7	2456.2	2560.5
155°	1947.1	2018.1	2173.3	2390.2	2466.7
157.5°	2003.5	2058.7	2173.9	2343.8	2395.2
160°	2039.3	2085.7	2176.1	2316.7	2354.9
162.5°	2070.5	2108.2	2178.4	2294.1	2321.4
165°	2111.9	2136.5	2181.7	2268.6	2279.5
167.5°	2145.4	2159.6	2184.5	2248.9	2253.2
170°	2167.8	2173.2	2184.5	2237.6	2237.6
172.5°	2181.2	2182.3	2186.8	2226.4	2226.4
175°	2195.7	2193.0	2184.5	2215.1	2209.7
177.5°	2201.8	2197.5	2186.2	2204.0	2199.6
180°	2192.9	2192.9	2192.9	2192.9	2192.9

(END OF REPORT)