

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: P562772

Luminaire Tested: **SQ4-PC3-075U-125D-830-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562772
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, 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-PC3-075U-125D-830-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

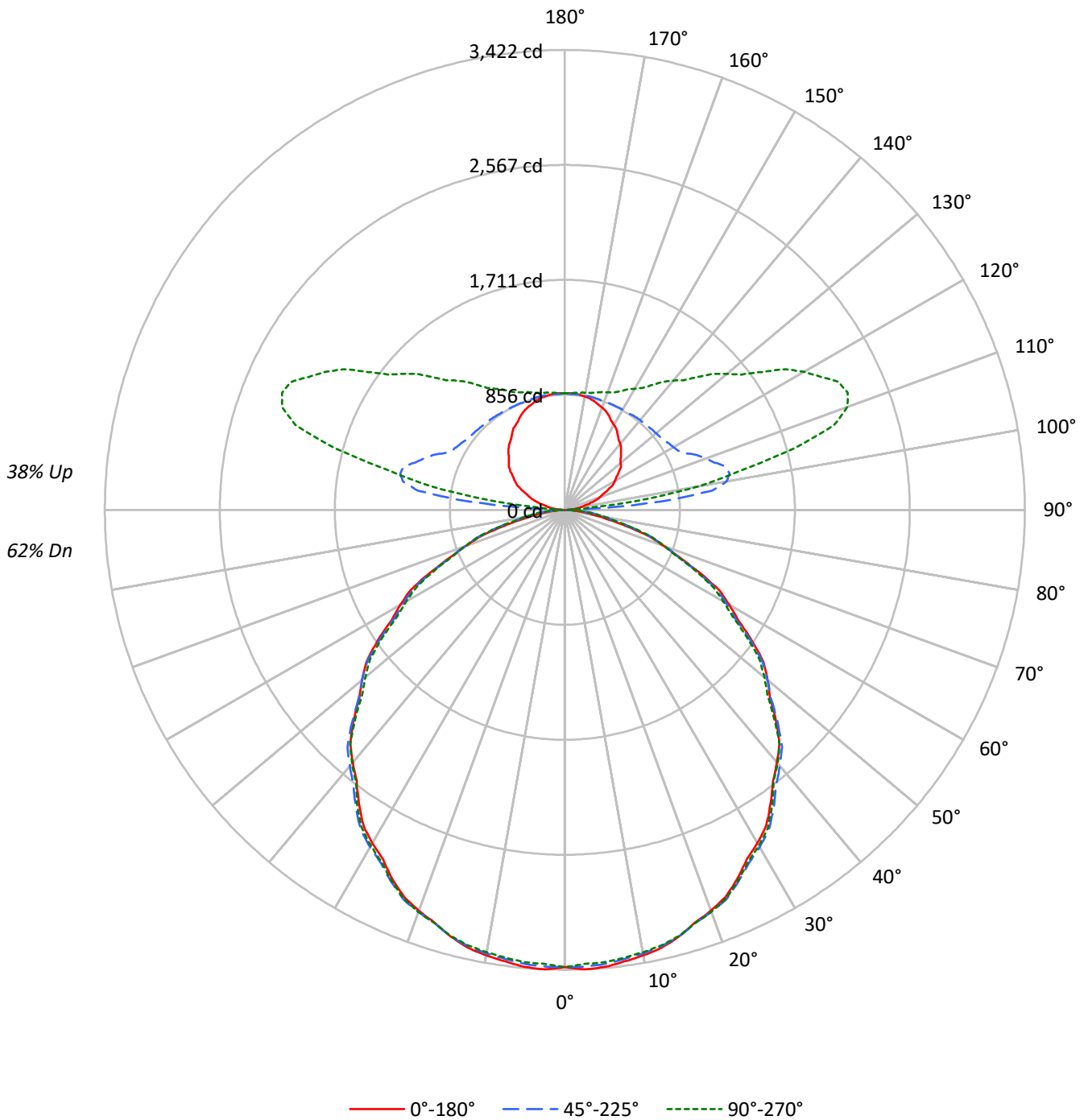
Lumens per Lamp: N/A
Luminaire Lumens: 14938.3 lumens
Efficiency: N/A
Efficacy: 117.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 127.7
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	110	110	110	110	103	103	103	103	90	90	90	78	78	78	67	67	67	62
1	101	96	92	89	94	90	87	84	79	77	74	69	67	65	60	58	57	53
2	92	84	78	73	86	79	73	69	69	65	62	61	57	55	52	50	48	44
3	84	74	66	60	78	70	63	57	61	56	52	54	50	46	46	43	41	37
4	76	65	57	51	71	62	54	49	54	49	44	48	43	40	42	38	35	32
5	70	58	50	44	66	55	47	42	49	43	38	43	38	34	37	34	31	28
6	65	52	44	38	60	49	42	36	44	38	33	39	34	30	34	30	27	24
7	60	47	39	33	56	45	37	32	40	34	29	35	30	27	31	27	24	21
8	56	43	35	30	52	41	33	28	36	30	26	32	27	24	28	24	21	19
9	52	39	32	26	48	37	30	25	33	27	23	30	25	21	26	22	19	17
10	48	36	29	24	45	34	27	23	31	25	21	27	23	19	24	20	17	16

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15693	15693	15693
5°	15812	15710	15651
10°	15773	15699	15655
15°	15691	15691	15675
20°	15587	15634	15634
25°	15440	15552	15504
30°	15252	15436	15369
35°	15025	15255	15149
40°	14777	14985	14833
45°	14508	14611	14385
50°	14129	14129	13903
55°	13681	13503	13300
60°	13020	12758	12555
65°	12034	11793	11691
70°	10537	10622	10578
75°	8477	9375	9432
80°	6025	7948	8033
85°	3668	6669	6669



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	322.0	2.2
10°-20°	923.9	6.2
20°-30°	1399.2	9.4
30°-40°	1677.4	11.2
40°-50°	1710.4	11.4
50°-60°	1493.0	10.0
60°-70°	1068.9	7.2
70°-80°	550.5	3.7
80°-90°	141.4	0.9
90°-100°	409.2	2.7
100°-110°	1125.7	7.5
110°-120°	1161.9	7.8
120°-130°	931.0	6.2
130°-140°	731.2	4.9
140°-150°	560.3	3.8
150°-160°	402.9	2.7
160°-170°	246.4	1.6
170°-180°	83.0	0.6
0°-30°	2645.0	17.7
0°-40°	4322.4	28.9
0°-60°	7525.8	50.4
0°-90°	9286.7	62.2
90°-120°	2696.8	18.1
90°-150°	4919.3	32.9
90°-180°	5652.0	37.8
0°-180°	14938.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3402	3402	3402	3402	3402	
5°	3414	3381	3392	3383	3380	324
15°	3285	3258	3285	3285	3282	926
25°	3033	3012	3055	3046	3046	1396
35°	2668	2662	2709	2690	2690	1669
45°	2224	2218	2240	2211	2205	1712
55°	1701	1679	1679	1654	1654	1516
65°	1102	1078	1080	1071	1071	1090
75°	476	497	526	529	529	514
85°	69	106	126	129	126	94
90°	2	7	13	17	17	7
95°	61	223	724	309	198	64
105°	201	310	1240	1889	1763	212
115°	356	434	995	1981	2248	352
125°	491	560	903	1527	1789	438
135°	592	658	877	1235	1397	457
145°	685	732	864	1052	1133	429
155°	775	800	858	946	973	356
165°	838	849	862	897	903	236
175°	868	869	864	875	873	82
180°	868	868	868	868	868	

TEST NUMBER: P562772

CATALOG NUMBER: SQ4-PC3-075U-125D-830-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3401.9	3401.9	3401.9	3401.9	3401.9
2.5°	3422.1	3392.5	3401.9	3394.1	3381.7
5°	3414.5	3380.6	3392.5	3382.9	3379.9
7.5°	3389.9	3356.1	3371.7	3365.3	3362.2
10°	3367.3	3333.4	3351.5	3345.1	3342.1
12.5°	3337.0	3305.6	3326.3	3320.0	3319.4
15°	3285.4	3257.6	3285.4	3285.3	3282.2
17.5°	3220.5	3195.2	3224.9	3226.7	3224.9
20°	3175.1	3147.4	3184.6	3181.5	3184.6
22.5°	3119.7	3096.9	3136.7	3128.6	3131.6
25°	3033.4	3011.8	3055.4	3046.0	3046.0
27.5°	2931.3	2915.9	2963.4	2953.4	2953.4
30°	2863.3	2847.9	2897.9	2885.3	2885.3
32.5°	2787.7	2777.2	2824.8	2809.7	2809.7
35°	2668.0	2661.8	2708.9	2690.0	2690.0
37.5°	2544.5	2539.0	2581.7	2558.8	2551.4
40°	2453.8	2450.7	2488.4	2463.2	2463.2
42.5°	2363.1	2360.0	2392.7	2362.4	2362.4
45°	2223.8	2217.7	2239.6	2211.1	2204.9
47.5°	2072.0	2065.9	2079.6	2048.6	2045.6
50°	1968.7	1962.5	1968.7	1940.3	1937.2
52.5°	1862.9	1851.8	1852.8	1824.4	1823.8
55°	1701.0	1679.4	1678.9	1653.7	1653.7
57.5°	1529.6	1501.3	1503.8	1482.3	1479.2
60°	1411.2	1380.4	1382.8	1363.8	1360.8
62.5°	1295.2	1259.5	1266.9	1245.5	1244.8
65°	1102.5	1077.8	1080.4	1071.0	1071.0
67.5°	917.3	894.5	911.0	903.4	902.8
70°	781.2	765.8	787.5	787.4	784.3
72.5°	655.2	654.6	681.6	681.7	683.5
75°	475.6	497.2	526.0	529.2	529.2
77.5°	317.5	355.7	387.4	388.7	388.1
80°	226.8	269.9	299.2	305.5	302.4
82.5°	153.7	199.3	223.6	229.9	226.8
85°	69.3	106.3	126.0	129.1	126.0
87.5°	20.5	43.8	53.0	53.6	48.7
90°	1.8	7.3	12.9	16.6	16.6
92.5°	25.5	108.9	188.6	72.4	59.4
95°	60.9	223.3	723.6	309.4	197.5
97.5°	99.3	247.7	1104.2	850.8	600.3
100°	127.4	262.7	1223.8	1235.2	1007.8
102.5°	153.9	280.6	1254.8	1532.4	1323.8
105°	201.2	309.5	1240.4	1889.1	1762.7
107.5°	246.2	345.1	1169.9	2063.7	2101.3
110°	278.7	369.0	1116.7	2107.2	2237.1

TEST NUMBER: P562772

CATALOG NUMBER: SQ4-PC3-075U-125D-830-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	308.3	395.6	1063.6	2079.2	2277.0
115°	356.2	433.8	994.9	1981.1	2248.2
117.5°	402.0	473.5	951.3	1843.4	2145.6
120°	430.1	498.7	932.1	1740.3	2052.5
122.5°	455.2	523.8	918.8	1649.9	1946.2
125°	491.0	559.6	902.6	1526.9	1788.6
127.5°	524.9	590.3	891.9	1424.3	1653.8
130°	542.7	609.4	886.0	1363.3	1572.6
132.5°	563.3	630.1	881.6	1309.7	1498.8
135°	592.5	657.5	876.8	1234.8	1397.3
137.5°	619.8	680.1	872.7	1174.4	1308.3
140°	640.5	696.4	871.2	1134.2	1255.2
142.5°	658.2	709.8	868.3	1098.4	1202.0
145°	684.8	731.7	863.8	1052.1	1133.3
147.5°	713.2	753.6	861.6	1011.1	1076.1
150°	730.9	767.0	860.1	988.7	1039.2
152.5°	747.2	780.4	858.7	969.3	1011.1
155°	775.2	800.5	858.3	945.7	972.7
157.5°	795.5	816.1	858.3	926.3	945.1
160°	810.3	826.6	858.3	915.9	930.3
162.5°	822.1	835.5	859.8	906.9	918.5
165°	838.0	848.8	862.0	897.2	902.6
167.5°	849.1	857.4	863.8	889.0	890.4
170°	856.5	861.9	863.8	886.0	886.0
172.5°	862.4	864.9	863.8	881.5	880.1
175°	867.5	869.3	863.8	874.9	873.1
177.5°	869.0	869.0	863.1	871.9	869.0
180°	867.5	867.5	867.5	867.5	867.5

(END OF REPORT)