

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: P563169

Luminaire Tested: **SQ4-PC3-150U-125D-935-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563169
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-125D-935-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

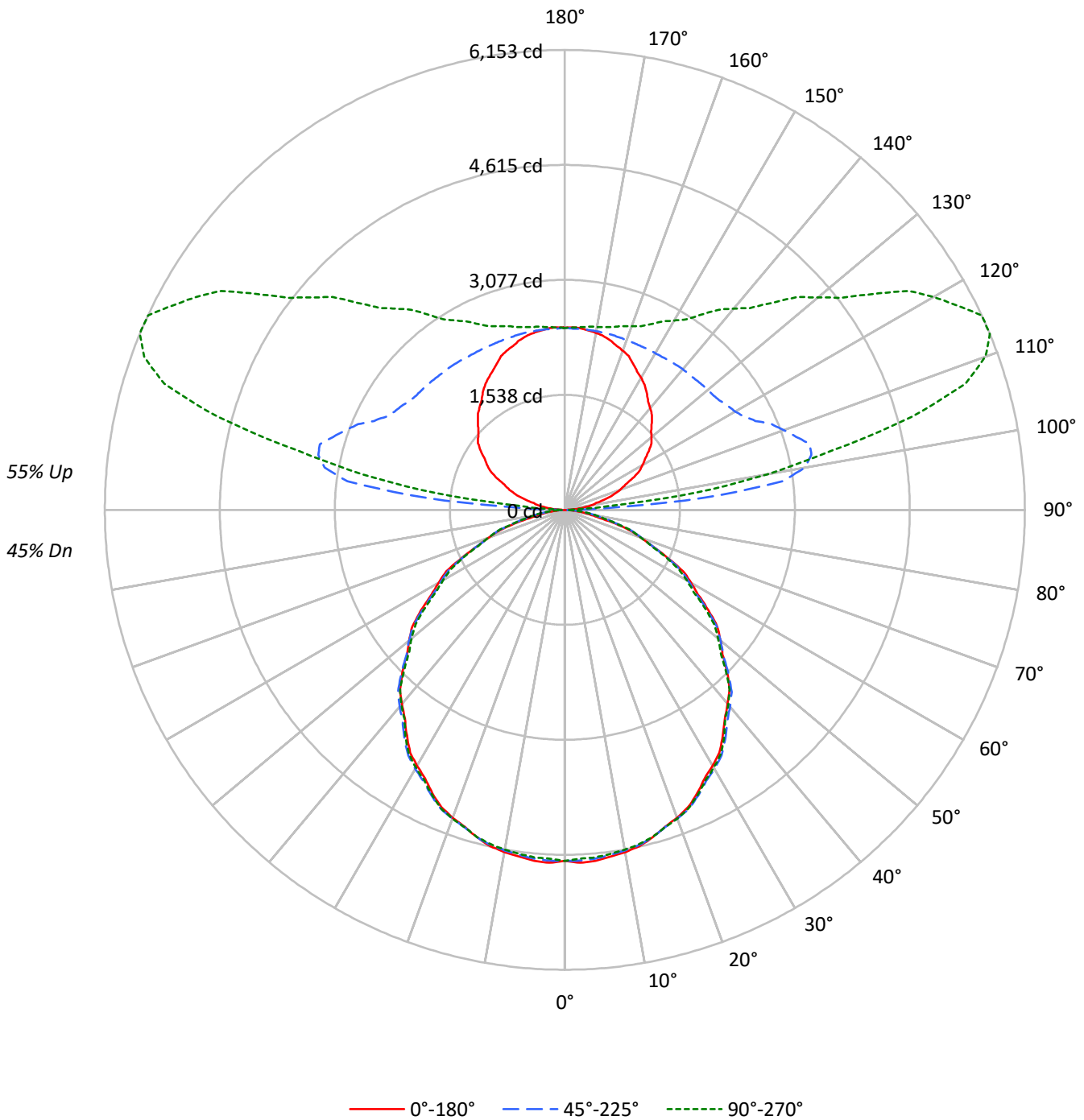
Lumens per Lamp: N/A
Luminaire Lumens: 28527.7 lumens
Efficiency: N/A
Efficacy: 111.3 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 256.3
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	0
RCR																		
0	106	106	106	106	97	97	97	97	81	81	81	65	65	65	51	51	51	45
1	97	92	89	85	88	85	82	79	71	68	66	58	56	55	46	45	44	38
2	88	81	75	70	80	74	69	65	62	58	55	51	48	46	40	38	37	32
3	80	71	64	58	73	65	59	54	55	50	46	45	41	38	36	33	31	27
4	73	63	55	49	67	58	51	46	48	43	39	40	36	33	32	29	27	23
5	67	56	48	42	61	51	44	39	43	38	34	36	32	28	29	26	23	20
6	62	50	42	36	57	46	39	34	39	33	29	32	28	25	26	23	20	18
7	57	45	37	32	52	42	35	30	35	30	26	29	25	22	24	20	18	15
8	53	41	33	28	49	38	31	26	32	27	23	27	23	20	22	19	16	14
9	49	37	30	25	45	35	28	23	29	24	20	24	20	17	20	17	15	12
10	46	34	27	22	42	32	25	21	27	22	18	23	19	16	18	15	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14446	14446	14446
5°	14555	14461	14408
10°	14520	14452	14411
15°	14444	14444	14430
20°	14348	14391	14391
25°	14213	14316	14272
30°	14040	14210	14148
35°	13831	14043	13945
40°	13602	13795	13655
45°	13355	13450	13242
50°	13006	13006	12798
55°	12593	12430	12244
60°	11985	11744	11557
65°	11078	10857	10761
70°	9700	9778	9738
75°	7804	8631	8682
80°	5547	7318	7394
85°	3377	6140	6140



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	444.6	1.6
10°-20°	1275.8	4.5
20°-30°	1932.0	6.8
30°-40°	2316.2	8.1
40°-50°	2361.7	8.3
50°-60°	2061.6	7.2
60°-70°	1475.9	5.2
70°-80°	760.2	2.7
80°-90°	197.3	0.7
90°-100°	1131.9	4.0
100°-110°	3060.3	10.7
110°-120°	3217.5	11.3
120°-130°	2613.5	9.2
130°-140°	2050.0	7.2
140°-150°	1573.4	5.5
150°-160°	1131.6	4.0
160°-170°	691.3	2.4
170°-180°	233.1	0.8
0°-30°	3652.3	12.8
0°-40°	5968.5	20.9
0°-60°	10391.8	36.4
0°-90°	12825.2	45.0
90°-120°	7409.7	26.0
90°-150°	13646.6	47.8
90°-180°	15703.0	55.0
0°-180°	28527.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4697	4697	4697	4697	4697	
5°	4715	4668	4684	4671	4667	448
15°	4536	4498	4536	4536	4532	1279
25°	4188	4159	4219	4206	4206	1928
35°	3684	3676	3740	3714	3714	2304
45°	3071	3062	3092	3053	3045	2364
55°	2349	2319	2318	2284	2284	2094
65°	1522	1488	1492	1479	1479	1506
75°	657	686	726	731	731	710
85°	96	147	174	178	174	130
90°	5	16	34	37	34	16
95°	176	616	1882	974	579	184
105°	569	879	3395	5008	4803	599
115°	1002	1224	2816	5451	6153	989
125°	1371	1571	2538	4282	5031	1222
135°	1644	1839	2470	3458	3914	1270
145°	1911	2055	2436	2960	3185	1196
155°	2158	2242	2414	2655	2742	995
165°	2349	2372	2425	2520	2532	662
175°	2438	2436	2428	2459	2454	231
180°	2436	2436	2436	2436	2436	

TEST NUMBER: P563169

CATALOG NUMBER: SQ4-PC3-150U-125D-935-1D-UNV-STD-W-12

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4697.4	4697.4	4697.4	4697.4	4697.4
2.5°	4725.2	4684.4	4697.4	4686.6	4669.6
5°	4714.8	4668.0	4684.4	4671.2	4667.0
7.5°	4680.9	4634.1	4655.6	4646.9	4642.6
10°	4649.6	4602.8	4627.8	4619.0	4614.8
12.5°	4607.8	4564.4	4593.0	4584.3	4583.4
15°	4536.5	4498.2	4536.5	4536.4	4532.1
17.5°	4446.9	4412.0	4453.0	4455.5	4453.0
20°	4384.2	4346.0	4397.3	4393.0	4397.3
22.5°	4307.7	4276.2	4331.2	4320.0	4324.2
25°	4188.5	4158.7	4219.0	4205.9	4205.9
27.5°	4047.6	4026.3	4092.0	4078.0	4078.0
30°	3953.6	3932.4	4001.5	3984.1	3984.1
32.5°	3849.3	3834.8	3900.6	3879.7	3879.7
35°	3684.0	3675.5	3740.5	3714.4	3714.4
37.5°	3513.5	3505.8	3564.8	3533.3	3523.1
40°	3388.2	3384.0	3436.1	3401.3	3401.3
42.5°	3263.0	3258.7	3303.8	3262.1	3262.1
45°	3070.7	3062.2	3092.5	3053.1	3044.6
47.5°	2861.1	2852.6	2871.5	2828.8	2824.5
50°	2718.4	2709.9	2718.4	2679.2	2674.9
52.5°	2572.3	2557.0	2558.3	2519.2	2518.3
55°	2348.7	2318.9	2318.3	2283.5	2283.5
57.5°	2112.1	2073.0	2076.4	2046.8	2042.5
60°	1948.6	1906.0	1909.4	1883.2	1879.0
62.5°	1788.5	1739.2	1749.3	1719.8	1718.9
65°	1522.3	1488.3	1491.9	1478.8	1478.8
67.5°	1266.6	1235.1	1257.9	1247.4	1246.6
70°	1078.7	1057.4	1087.4	1087.3	1083.0
72.5°	904.7	903.8	941.2	941.3	943.8
75°	656.8	686.5	726.4	730.7	730.7
77.5°	438.4	491.2	535.0	536.7	535.9
80°	313.2	372.7	413.2	421.8	417.5
82.5°	212.3	275.2	308.8	317.4	313.2
85°	95.7	146.7	174.0	178.2	174.0
87.5°	28.9	61.6	76.4	76.8	69.4
90°	5.2	15.5	34.1	36.6	34.1
92.5°	74.5	271.3	535.3	232.4	168.3
95°	175.6	616.5	1882.3	974.1	579.4
97.5°	282.1	707.1	2934.1	2428.2	1783.2
100°	361.8	743.7	3261.3	3401.2	2750.1
102.5°	435.2	794.6	3376.7	4139.0	3651.9
105°	568.9	879.1	3395.0	5007.9	4802.8
107.5°	692.6	975.6	3246.6	5550.0	5618.1
110°	789.1	1045.4	3114.5	5695.5	5985.2



TEST NUMBER: P563169

CATALOG NUMBER: SQ4-PC3-150U-125D-935-1D-UNV-STD-W-12

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	875.1	1115.0	2992.8	5666.4	6153.0
115°	1001.5	1224.5	2815.6	5450.6	6153.0
117.5°	1125.2	1334.4	2698.7	5120.8	5917.0
120°	1200.7	1405.8	2629.5	4884.2	5696.8
122.5°	1272.0	1473.0	2587.5	4630.6	5449.3
125°	1371.1	1571.1	2537.7	4282.4	5030.9
127.5°	1462.3	1658.7	2508.4	3998.3	4656.5
130°	1512.7	1715.2	2495.8	3822.7	4417.4
132.5°	1565.1	1765.6	2483.2	3664.4	4211.9
135°	1643.8	1838.6	2469.6	3457.8	3914.1
137.5°	1722.9	1907.0	2458.0	3290.2	3661.9
140°	1777.5	1949.2	2453.8	3182.3	3513.0
142.5°	1829.9	1991.4	2445.5	3084.9	3374.6
145°	1911.2	2054.7	2435.5	2959.7	3185.3
147.5°	1985.1	2112.2	2424.0	2846.3	3019.6
150°	2039.6	2152.4	2419.8	2784.7	2923.1
152.5°	2090.0	2188.4	2417.7	2727.5	2841.3
155°	2157.6	2242.2	2414.5	2655.1	2742.2
157.5°	2227.9	2286.8	2415.0	2604.6	2662.0
160°	2267.7	2316.4	2417.1	2572.7	2613.8
162.5°	2299.2	2339.7	2419.2	2547.3	2578.1
165°	2349.0	2372.0	2425.0	2519.7	2532.5
167.5°	2383.1	2399.0	2425.5	2495.9	2502.1
170°	2404.0	2411.7	2427.6	2485.3	2485.3
172.5°	2420.8	2422.3	2427.6	2472.7	2470.6
175°	2438.1	2435.5	2427.6	2459.0	2453.8
177.5°	2443.9	2437.7	2427.1	2447.9	2441.8
180°	2435.5	2435.5	2435.5	2435.5	2435.5

(END OF REPORT)