

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: P563841

Luminaire Tested: **SQ4-PP3-150U-125D-935-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563841
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-25, G2-2103-172-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PP3-150U-125D-935-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM 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: 28406.4 lumens
Efficiency: N/A
Efficacy: 110.8 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: General Diffuse

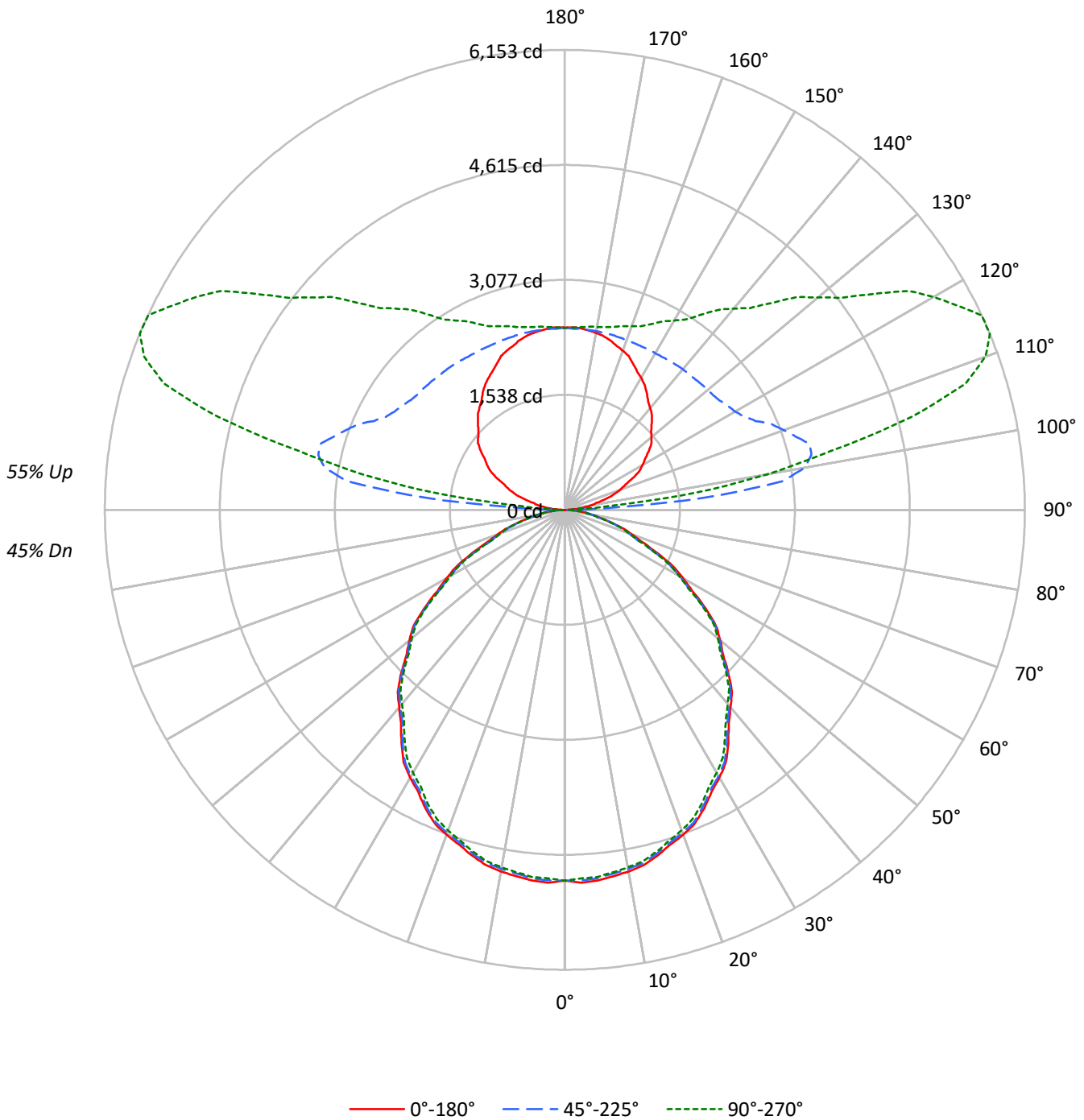
Input Watts (W): 256.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	80	80	80	65	65	65	51	51	51	45
1	97	93	89	85	89	85	82	79	71	68	66	58	56	55	46	45	44	38
2	88	81	75	70	81	74	69	65	62	58	55	51	48	46	40	39	37	32
3	81	71	64	58	74	66	59	54	55	50	47	45	42	39	36	34	32	27
4	74	63	55	49	67	58	51	46	49	44	40	40	36	33	32	29	27	24
5	68	56	48	42	62	52	45	40	44	38	34	36	32	29	29	26	24	20
6	62	50	42	37	57	47	40	34	39	34	30	33	28	25	26	23	21	18
7	58	45	38	32	53	42	35	30	36	30	26	30	25	22	24	21	19	16
8	53	41	34	28	49	38	31	27	32	27	23	27	23	20	22	19	17	14
9	50	38	30	25	46	35	28	24	30	25	21	25	21	18	20	17	15	13
10	46	34	27	23	43	32	26	21	27	22	19	23	19	16	19	16	14	12

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15259	15259	15259
5°	15371	15277	15223
10°	15345	15236	15168
15°	15243	15160	15077
20°	15142	15057	14943
25°	14962	14859	14711
30°	14685	14608	14423
35°	14301	14203	14024
40°	13844	13757	13599
45°	13466	13371	13239
50°	12982	12899	12774
55°	12311	12147	12054
60°	11207	10886	10832
65°	9873	9462	9430
70°	8524	8172	8172
75°	7337	7234	7131
80°	6470	6546	6392
85°	5064	5522	5522



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	469.2	1.7
10°-20°	1339.6	4.7
20°-30°	2006.6	7.1
30°-40°	2353.6	8.3
40°-50°	2360.9	8.3
50°-60°	2014.1	7.1
60°-70°	1313.5	4.6
70°-80°	659.0	2.3
80°-90°	187.5	0.7
90°-100°	1131.9	4.0
100°-110°	3060.3	10.8
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°	3815.3	13.4
0°-40°	6168.9	21.7
0°-60°	10543.9	37.1
0°-90°	12703.9	44.7
90°-120°	7409.7	26.1
90°-150°	13646.6	48.0
90°-180°	15703.0	55.3
0°-180°	28406.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4962	4962	4962	4962	4962	
5°	4979	4932	4948	4931	4931	473
15°	4788	4741	4762	4744	4735	1351
25°	4409	4358	4379	4340	4335	2028
35°	3809	3771	3783	3740	3735	2379
45°	3096	3075	3074	3044	3044	2384
55°	2296	2288	2266	2252	2248	2040
65°	1357	1331	1300	1292	1296	1354
75°	618	618	609	604	600	670
85°	144	156	156	156	156	169
90°	5	16	34	37	34	17
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	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4961.5	4961.5	4961.5	4961.5	4961.5
2.5°	4992.9	4952.0	4961.5	4954.1	4933.7
5°	4978.9	4932.2	4948.5	4931.1	4931.1
7.5°	4945.0	4894.0	4910.2	4892.8	4892.0
10°	4913.7	4862.7	4878.9	4861.4	4857.2
12.5°	4868.5	4817.5	4837.2	4816.3	4815.4
15°	4787.6	4740.8	4761.5	4743.9	4735.4
17.5°	4696.3	4645.3	4670.2	4645.8	4642.4
20°	4626.7	4575.7	4600.6	4565.8	4565.8
22.5°	4543.2	4492.2	4520.6	4475.4	4475.4
25°	4409.3	4358.3	4378.9	4339.6	4335.4
27.5°	4250.1	4200.0	4221.4	4177.1	4176.2
30°	4135.3	4088.6	4113.6	4065.7	4061.4
32.5°	4010.1	3966.7	3984.9	3937.0	3932.7
35°	3809.2	3770.9	3783.1	3739.5	3735.3
37.5°	3597.9	3558.8	3572.7	3535.2	3533.5
40°	3448.3	3422.8	3426.6	3395.9	3387.4
42.5°	3309.1	3280.2	3283.9	3253.4	3251.7
45°	3096.1	3074.8	3074.3	3043.9	3043.9
47.5°	2870.0	2853.8	2849.1	2823.8	2823.0
50°	2713.4	2700.7	2696.0	2674.2	2669.9
52.5°	2549.9	2544.0	2529.0	2510.8	2509.9
55°	2296.0	2287.5	2265.5	2252.4	2248.1
57.5°	2020.3	2003.3	1978.5	1959.5	1962.9
60°	1822.0	1805.0	1769.8	1761.1	1761.1
62.5°	1630.7	1610.2	1575.0	1563.0	1569.8
65°	1356.7	1331.2	1300.2	1291.6	1295.8
67.5°	1108.0	1085.0	1051.4	1051.4	1048.0
70°	948.0	935.2	908.8	908.8	908.8
72.5°	805.3	799.4	780.1	780.0	776.6
75°	617.5	617.5	608.8	604.3	600.1
77.5°	462.7	464.4	460.1	455.5	447.9
80°	365.3	373.8	369.6	365.2	360.9
82.5°	274.8	283.3	282.6	274.8	274.0
85°	143.5	156.3	156.5	156.5	156.5
87.5°	39.3	55.0	62.5	63.1	66.0
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



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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)