

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: P563345

Luminaire Tested: **SQ4-PP3-050U-125D-830-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563345
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-21, 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-PP3-050U-125D-830-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

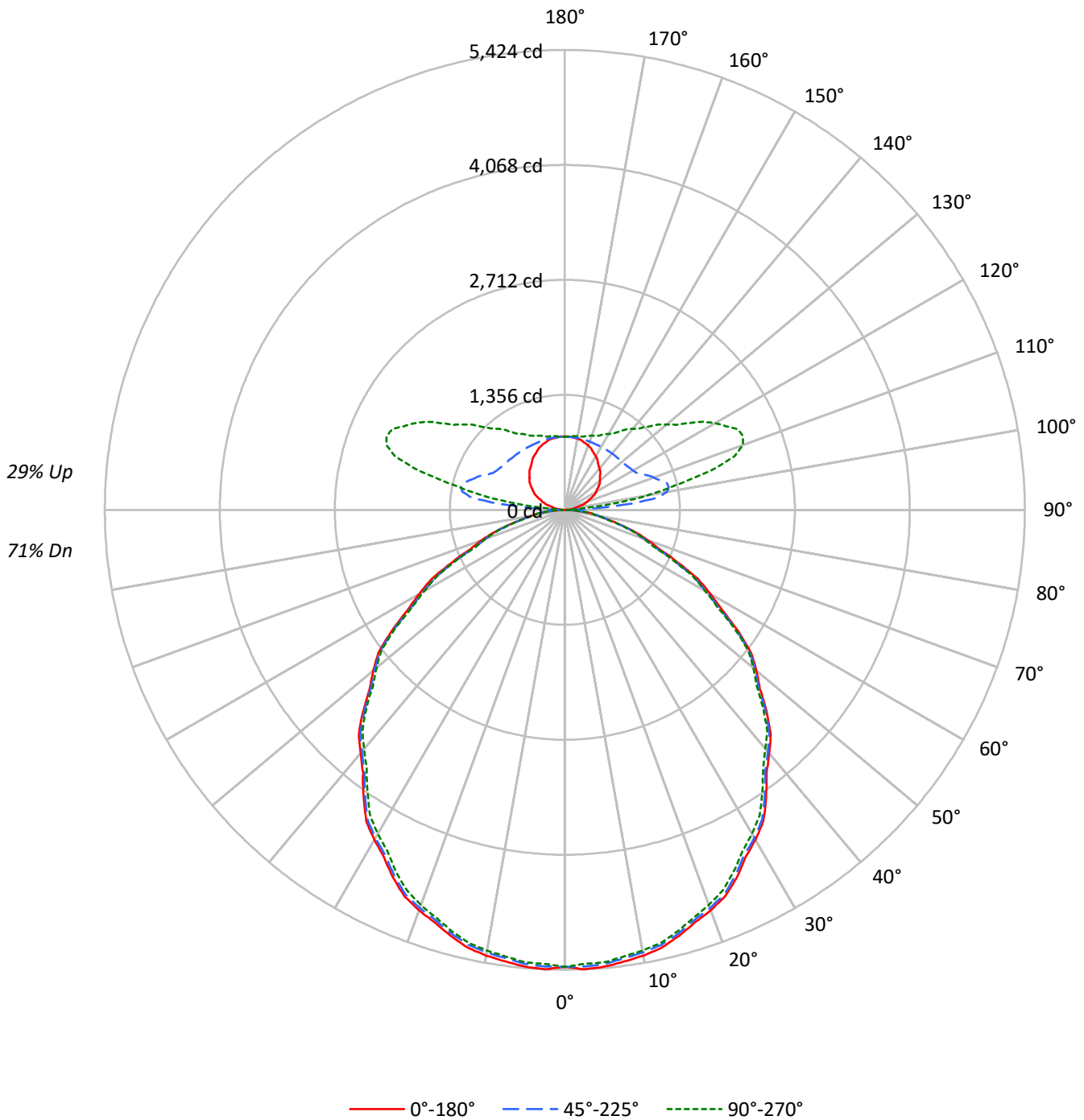
Lumens per Lamp: N/A
Luminaire Lumens: 19438.7 lumens
Efficiency: N/A
Efficacy: 116.4 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 167
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	112	112	112	112	106	106	106	106	95	95	95	85	85	85	75	75	75	71
1	103	98	95	91	97	93	90	87	84	81	79	75	73	71	67	66	64	60
2	94	86	80	75	89	82	76	72	74	69	66	66	63	60	59	57	55	51
3	86	76	69	63	81	72	66	60	65	60	56	59	55	51	53	50	47	43
4	79	68	59	53	74	64	57	51	58	52	48	53	48	44	47	44	40	37
5	72	60	52	46	68	58	50	44	52	46	41	47	42	38	43	39	35	33
6	67	54	46	40	63	52	44	39	47	41	36	43	38	34	39	34	31	29
7	62	49	41	35	58	47	39	34	43	37	32	39	34	30	35	31	28	25
8	57	45	37	31	54	43	35	30	39	33	29	36	31	27	33	28	25	23
9	54	41	33	28	51	39	32	27	36	30	26	33	28	24	30	26	22	20
10	50	38	30	25	48	36	29	25	33	27	23	31	25	22	28	24	20	19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16576	16576	16576
5°	16697	16595	16537
10°	16669	16551	16477
15°	16559	16469	16379
20°	16449	16356	16233
25°	16254	16141	15981
30°	15953	15869	15668
35°	15536	15429	15234
40°	15038	14944	14773
45°	14628	14525	14381
50°	14103	14012	13877
55°	13373	13196	13095
60°	12174	11826	11767
65°	10725	10278	10244
70°	9260	8878	8878
75°	7971	7858	7746
80°	7028	7111	6944
85°	5501	6002	6002



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	509.7	2.6
10°-20°	1455.2	7.5
20°-30°	2179.8	11.2
30°-40°	2556.7	13.2
40°-50°	2564.7	13.2
50°-60°	2187.9	11.3
60°-70°	1426.9	7.3
70°-80°	715.9	3.7
80°-90°	201.4	1.0
90°-100°	414.7	2.1
100°-110°	1126.6	5.8
110°-120°	1158.3	6.0
120°-130°	926.1	4.8
130°-140°	727.6	3.7
140°-150°	557.9	2.9
150°-160°	401.2	2.1
160°-170°	245.4	1.3
170°-180°	82.7	0.4
0°-30°	4144.7	21.3
0°-40°	6701.4	34.5
0°-60°	11454.0	58.9
0°-90°	13798.2	71.0
90°-120°	2699.5	13.9
90°-150°	4911.2	25.3
90°-180°	5640.0	29.0
0°-180°	19438.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5390	5390	5390	5390	5390	
5°	5409	5358	5376	5357	5357	514
15°	5201	5150	5172	5153	5144	1467
25°	4790	4734	4757	4714	4710	2203
35°	4138	4096	4110	4062	4058	2585
45°	3363	3340	3340	3307	3307	2590
55°	2494	2485	2461	2447	2442	2217
65°	1474	1446	1412	1403	1408	1471
75°	671	671	661	656	652	728
85°	156	170	170	170	170	183
90°	3	11	19	25	25	10
95°	61	227	722	314	211	65
105°	200	311	1239	1886	1775	212
115°	356	432	992	1973	2247	351
125°	489	557	897	1512	1783	436
135°	589	654	872	1231	1389	455
145°	680	729	861	1046	1125	427
155°	769	797	856	940	967	355
165°	833	844	858	894	897	235
175°	864	867	861	872	869	82
180°	864	864	864	864	864	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5389.8	5389.8	5389.8	5389.8	5389.8
2.5°	5423.8	5379.5	5389.8	5381.7	5359.6
5°	5408.7	5357.9	5375.6	5356.7	5356.7
7.5°	5371.9	5316.4	5334.1	5315.1	5314.2
10°	5337.8	5282.4	5300.1	5281.1	5276.4
12.5°	5288.7	5233.3	5254.7	5232.0	5231.1
15°	5200.9	5150.0	5172.5	5153.4	5144.2
17.5°	5101.7	5046.2	5073.3	5046.8	5043.1
20°	5026.1	4970.7	4997.7	4959.9	4959.9
22.5°	4935.4	4880.0	4910.8	4861.7	4861.7
25°	4789.9	4734.5	4756.8	4714.2	4709.6
27.5°	4617.0	4562.5	4585.8	4537.6	4536.7
30°	4492.3	4441.5	4468.7	4416.6	4412.0
32.5°	4356.2	4309.1	4328.8	4276.8	4272.2
35°	4138.0	4096.4	4109.7	4062.3	4057.7
37.5°	3908.4	3865.9	3881.0	3840.4	3838.5
40°	3745.9	3718.2	3722.3	3689.0	3679.8
42.5°	3594.8	3563.4	3567.4	3534.3	3532.4
45°	3363.3	3340.2	3339.7	3306.6	3306.6
47.5°	3117.7	3100.1	3095.0	3067.6	3066.7
50°	2947.6	2933.8	2928.7	2905.0	2900.4
52.5°	2770.0	2763.5	2747.3	2727.5	2726.6
55°	2494.1	2484.9	2461.1	2446.8	2442.2
57.5°	2194.7	2176.2	2149.3	2128.6	2132.3
60°	1979.3	1960.8	1922.6	1913.1	1913.1
62.5°	1771.4	1749.2	1710.9	1697.9	1705.3
65°	1473.8	1446.1	1412.4	1403.1	1407.7
67.5°	1203.6	1178.7	1142.2	1142.1	1138.4
70°	1029.8	1015.9	987.3	987.3	987.3
72.5°	874.8	868.4	847.4	847.4	843.7
75°	670.8	670.8	661.3	656.5	651.9
77.5°	502.6	504.5	499.8	494.9	486.5
80°	396.8	406.0	401.5	396.7	392.1
82.5°	298.5	307.8	307.0	298.5	297.6
85°	155.9	169.7	170.1	170.1	170.1
87.5°	42.1	58.5	64.4	65.5	69.2
90°	2.8	10.9	19.4	25.0	25.0
92.5°	25.0	113.5	197.2	84.7	71.7
95°	61.1	226.8	722.2	314.3	211.1
97.5°	101.1	250.5	1107.2	861.4	605.0
100°	127.8	266.3	1225.0	1241.8	1002.8
102.5°	154.4	282.1	1256.1	1535.7	1325.0
105°	200.0	311.4	1238.9	1886.3	1775.0
107.5°	247.2	345.5	1167.2	2067.3	2098.3
110°	280.6	370.2	1113.9	2103.0	2236.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	309.4	394.7	1060.5	2073.4	2273.8
115°	355.5	431.6	991.6	1972.9	2247.2
117.5°	398.9	471.7	947.8	1830.3	2139.4
120°	427.8	498.4	927.8	1734.7	2041.6
122.5°	452.2	522.8	914.4	1638.9	1935.0
125°	488.9	556.8	897.2	1511.7	1783.3
127.5°	521.7	589.0	887.8	1415.3	1648.3
130°	541.7	606.8	883.3	1354.7	1563.9
132.5°	561.7	626.8	878.9	1303.1	1488.3
135°	588.9	654.1	872.2	1231.3	1388.9
137.5°	618.3	677.5	868.9	1168.0	1300.5
140°	636.1	693.1	866.6	1127.7	1247.2
142.5°	653.9	706.6	864.4	1096.1	1196.1
145°	680.5	729.4	861.1	1046.2	1125.0
147.5°	710.5	752.4	858.3	1006.9	1068.9
150°	730.5	765.8	858.3	984.4	1033.3
152.5°	746.1	777.1	856.1	964.2	1004.4
155°	769.4	796.6	855.5	939.5	966.6
157.5°	792.2	813.4	855.5	922.7	943.3
160°	805.5	824.6	855.5	911.5	927.8
162.5°	818.9	833.5	857.8	902.5	914.4
165°	833.3	844.2	858.3	894.5	897.2
167.5°	848.3	853.7	861.1	885.0	887.2
170°	852.8	858.2	861.1	880.5	880.5
172.5°	857.2	860.5	861.1	876.1	876.1
175°	863.9	866.6	861.1	872.1	869.4
177.5°	866.1	866.1	859.4	868.2	863.9
180°	863.9	863.9	863.9	863.9	863.9

(END OF REPORT)