

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: P563253

Luminaire Tested: **SQ4-PP3-025U-125D-835-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P563253  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, 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-PP3-025U-125D-835-1D-UNV-STD-W-12  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.  
DOWNLIGHT 1250 LUMENS PER FOOT  
UPLIGHT 250 LUMENS PER FOOT  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17515.1 lumens  
Efficiency: N/A  
Efficacy: 112.1 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

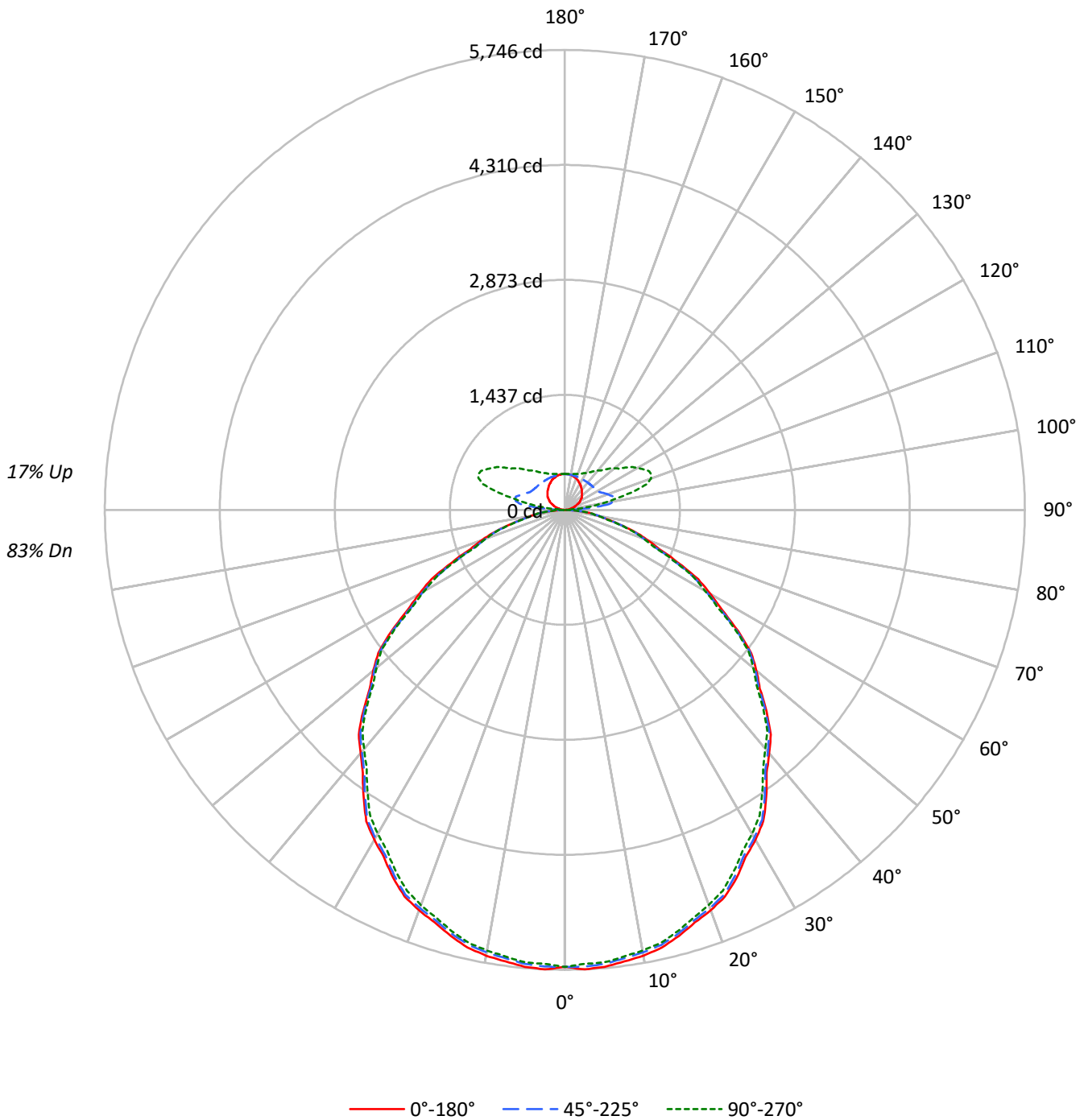
Input Watts (W): 156.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	115	115	115	115	111	111	111	111	102	102	102	94	94	94	87	87	87	83
1	106	101	97	94	101	97	94	91	90	87	85	84	81	79	77	76	74	71
2	96	89	82	77	92	86	80	75	79	75	71	74	70	67	68	66	63	60
3	88	78	71	65	84	76	69	63	70	65	60	65	61	57	61	57	54	51
4	81	70	61	55	77	67	60	54	63	56	51	58	53	49	55	50	47	44
5	74	62	54	48	71	60	52	47	56	50	45	53	47	43	49	45	41	38
6	69	56	48	42	66	54	46	41	51	44	39	48	42	37	45	40	36	34
7	64	51	43	37	61	49	42	36	46	40	35	44	38	33	41	36	32	30
8	59	46	38	33	57	45	37	32	42	36	31	40	34	30	38	33	29	27
9	55	43	35	29	53	41	34	29	39	32	28	37	31	27	35	30	26	24
10	52	39	32	27	50	38	31	26	36	30	25	34	28	24	32	27	24	22

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	17561	17561	17561
5°	17690	17582	17520
10°	17660	17535	17457
15°	17543	17448	17352
20°	17427	17329	17198
25°	17220	17101	16931
30°	16901	16812	16599
35°	16459	16347	16140
40°	15933	15832	15651
45°	15497	15389	15236
50°	14941	14845	14702
55°	14168	13980	13873
60°	12898	12529	12466
65°	11362	10889	10853
70°	9810	9405	9405
75°	8444	8325	8206
80°	7446	7534	7357
85°	5829	6359	6359



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	540.0	3.1
10°-20°	1541.7	8.8
20°-30°	2309.3	13.2
30°-40°	2708.7	15.5
40°-50°	2717.2	15.5
50°-60°	2318.0	13.2
60°-70°	1511.7	8.6
70°-80°	758.4	4.3
80°-90°	212.3	1.2
90°-100°	217.9	1.2
100°-110°	572.8	3.3
110°-120°	594.0	3.4
120°-130°	476.5	2.7
130°-140°	373.8	2.1
140°-150°	286.9	1.6
150°-160°	206.7	1.2
160°-170°	126.4	0.7
170°-180°	42.7	0.2
0°-30°	4391.0	25.1
0°-40°	7099.7	40.5
0°-60°	12134.9	69.3
0°-90°	14617.3	83.5
90°-120°	1384.7	7.9
90°-150°	2521.9	14.4
90°-180°	2898.0	16.5
0°-180°	17515.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5710	5710	5710	5710	5710	
5°	5730	5676	5695	5675	5675	544
15°	5510	5456	5480	5460	5450	1554
25°	5075	5016	5040	4994	4990	2333
35°	4384	4340	4354	4304	4299	2739
45°	3563	3539	3538	3503	3503	2744
55°	2642	2633	2607	2592	2587	2348
65°	1561	1532	1496	1486	1491	1558
75°	711	711	701	696	691	771
85°	165	180	180	180	180	194
90°	3	8	23	12	12	9
95°	29	113	375	194	132	32
105°	103	156	633	962	897	109
115°	183	223	507	1012	1155	181
125°	255	286	461	780	920	226
135°	304	335	447	630	714	235
145°	352	375	441	537	579	221
155°	398	410	441	485	499	183
165°	430	436	441	459	464	121
175°	447	447	444	450	450	42
180°	447	447	447	447	447	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5710.2	5710.2	5710.2	5710.2	5710.2
2.5°	5746.2	5699.2	5710.2	5701.6	5678.2
5°	5730.2	5676.4	5695.2	5675.2	5675.2
7.5°	5691.2	5632.5	5651.1	5631.1	5630.1
10°	5655.1	5596.4	5615.1	5595.0	5590.1
12.5°	5603.1	5544.4	5567.1	5543.0	5542.0
15°	5510.0	5456.2	5480.0	5459.7	5450.0
17.5°	5404.9	5346.2	5374.9	5346.8	5342.9
20°	5324.8	5266.1	5294.8	5254.8	5254.8
22.5°	5228.8	5170.0	5202.7	5150.7	5150.7
25°	5074.6	5015.9	5039.6	4994.4	4989.5
27.5°	4891.4	4833.7	4858.4	4807.3	4806.4
30°	4759.3	4705.5	4734.3	4679.1	4674.2
32.5°	4615.2	4565.3	4586.2	4531.0	4526.1
35°	4384.0	4339.9	4354.0	4303.8	4298.9
37.5°	4140.8	4095.7	4111.7	4068.7	4066.7
40°	3968.6	3939.2	3943.6	3908.3	3898.5
42.5°	3808.5	3775.2	3779.4	3744.4	3742.4
45°	3563.2	3538.8	3538.2	3503.2	3503.2
47.5°	3303.0	3284.4	3279.0	3249.9	3249.0
50°	3122.8	3108.2	3102.8	3077.7	3072.8
52.5°	2934.7	2927.8	2910.6	2889.6	2888.6
55°	2642.4	2632.6	2607.4	2592.2	2587.4
57.5°	2325.1	2305.5	2277.1	2255.1	2259.1
60°	2096.9	2077.3	2036.9	2026.8	2026.8
62.5°	1876.7	1853.2	1812.6	1798.8	1806.6
65°	1561.4	1532.1	1496.4	1486.5	1491.4
67.5°	1275.2	1248.7	1210.1	1210.0	1206.1
70°	1091.0	1076.3	1046.0	1046.0	1046.0
72.5°	926.8	920.0	897.8	897.7	893.8
75°	710.6	710.6	700.6	695.5	690.6
77.5°	532.5	534.4	529.5	524.3	515.5
80°	420.4	430.2	425.4	420.3	415.4
82.5°	316.3	326.1	325.3	316.3	315.3
85°	165.2	179.8	180.2	180.2	180.2
87.5°	44.6	61.4	68.6	66.4	70.4
90°	2.9	8.5	22.9	11.5	11.5
92.5°	12.0	58.0	128.4	56.9	36.7
95°	28.7	112.7	375.4	193.5	131.8
97.5°	49.9	123.8	561.7	446.7	329.0
100°	65.9	133.2	619.0	627.3	487.2
102.5°	79.7	142.4	635.1	781.4	661.4
105°	103.2	156.4	633.4	961.5	897.0
107.5°	127.2	176.6	597.2	1055.0	1070.7
110°	143.3	188.1	567.4	1079.1	1146.3

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	159.3	201.9	539.9	1063.9	1167.0
115°	183.4	222.6	507.3	1012.0	1154.9
117.5°	206.9	242.8	484.9	940.2	1098.8
120°	220.7	254.3	475.7	891.9	1046.0
122.5°	234.4	268.1	468.9	843.7	995.6
125°	255.1	285.9	461.4	779.8	919.9
127.5°	271.7	303.1	455.1	728.3	846.6
130°	280.9	314.5	452.8	696.0	805.3
132.5°	290.0	323.7	450.5	668.3	766.3
135°	303.8	334.6	447.1	629.5	713.6
137.5°	318.1	348.4	446.5	600.5	669.5
140°	329.6	357.6	444.2	577.5	642.0
142.5°	338.7	364.5	444.2	561.3	616.7
145°	352.5	374.9	441.3	536.9	578.9
147.5°	366.3	388.1	441.3	516.6	551.4
150°	375.4	395.0	441.3	505.0	533.1
152.5°	384.6	399.7	441.3	495.7	517.0
155°	398.4	409.6	441.3	484.6	498.7
157.5°	408.7	419.3	441.3	474.8	484.9
160°	415.5	424.0	441.3	470.1	475.7
162.5°	422.4	428.6	441.3	465.5	471.1
165°	429.9	435.5	441.3	458.7	464.3
167.5°	436.8	439.6	444.2	455.7	458.0
170°	441.3	444.1	444.2	455.7	455.7
172.5°	443.6	444.2	444.2	453.3	451.1
175°	447.1	447.1	444.2	449.9	449.9
177.5°	447.1	447.1	444.8	449.3	447.1
180°	447.1	447.1	447.1	447.1	447.1

(END OF REPORT)