

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: P563925

Luminaire Tested: **SQ4-PR1-025U-125D-835-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P563925  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, G2-2106-289-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-PR1-025U-125D-835-1D-UNV-STD-W-12  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.  
DOWNLIGHT 1250 LUMENS PER FOOT  
UPLIGHT 250 LUMENS PER FOOT  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

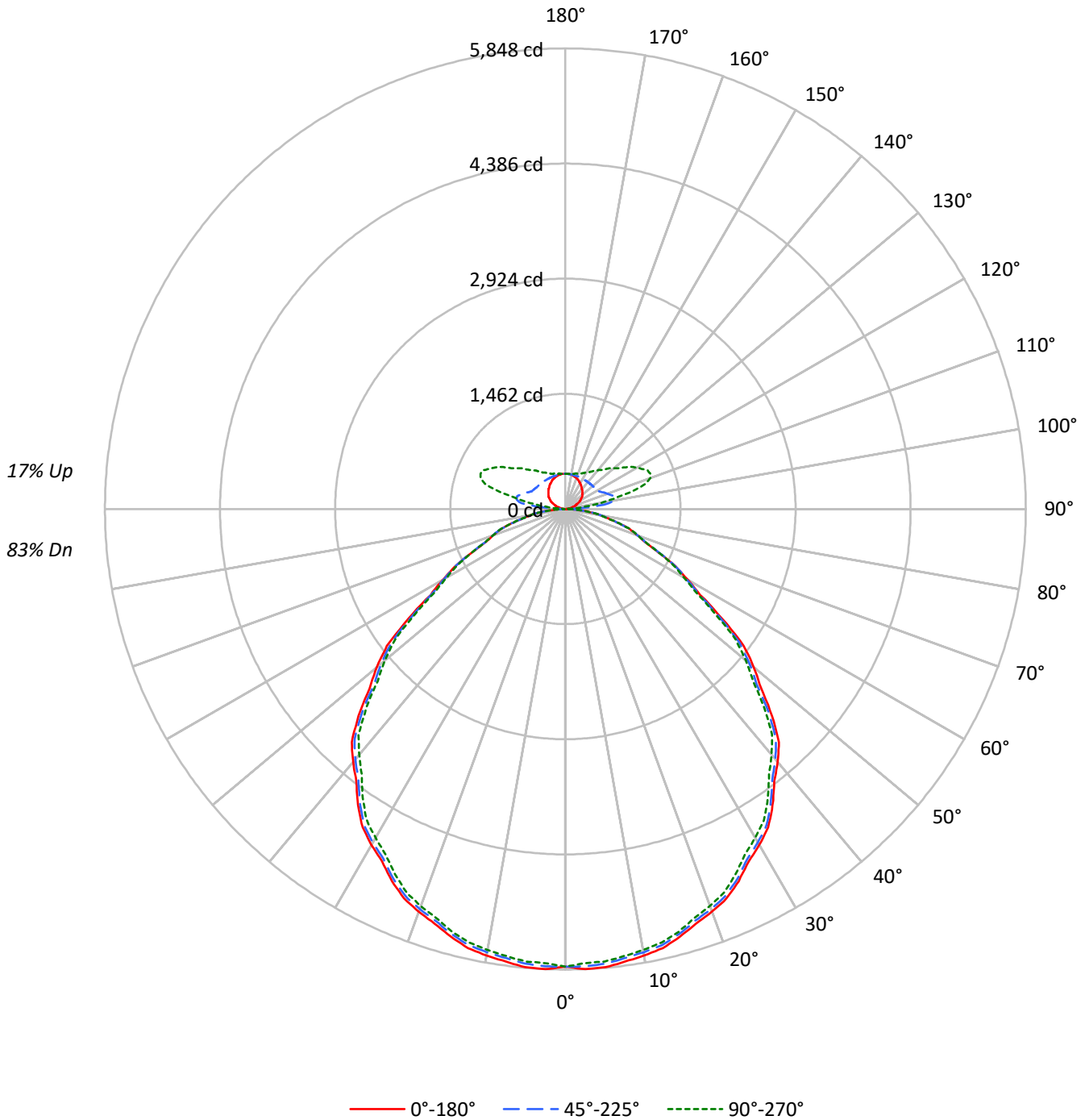
Lumens per Lamp: N/A  
Luminaire Lumens: 17428.6 lumens  
Efficiency: N/A  
Efficacy: 111.6 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35  
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')  
CIE Type: Semi-Direct

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	110	110	110	110	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	97	89	83	78	93	86	80	75	80	75	71	74	70	67	69	66	63	60
3	89	79	71	65	85	76	69	64	71	65	60	66	61	57	61	58	54	52
4	81	70	62	56	78	68	60	55	63	57	52	59	54	50	55	51	47	45
5	75	63	55	48	72	61	53	47	57	50	45	53	48	43	50	45	41	39
6	69	57	48	42	66	55	47	42	52	45	40	48	43	38	45	41	37	34
7	64	52	43	37	62	50	42	37	47	40	35	44	38	34	42	37	33	31
8	60	47	39	33	57	46	38	33	43	36	32	41	35	31	38	33	29	27
9	56	43	35	30	54	42	35	30	40	33	29	37	32	28	35	30	27	25
10	52	40	32	27	50	39	32	27	37	30	26	35	29	25	33	28	24	22

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

	0°	45°	90°
0°	17873	17873	17873
5°	18034	17895	17802
10°	17977	17852	17758
15°	17898	17786	17691
20°	17808	17693	17562
25°	17683	17564	17360
30°	17492	17367	17118
35°	17233	17083	16839
40°	16841	16660	16358
45°	16154	15871	15545
50°	14945	14585	14298
55°	13044	12749	12481
60°	10991	10899	10684
65°	9507	9544	9471
70°	8732	8777	8777
75°	8387	8387	8446
80°	7890	7979	7890
85°	6359	7064	7064



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	549.6	3.2
10°-20°	1572.4	9.0
20°-30°	2371.7	13.6
30°-40°	2825.8	16.2
40°-50°	2786.0	16.0
50°-60°	2129.2	12.2
60°-70°	1317.6	7.6
70°-80°	748.4	4.3
80°-90°	230.1	1.3
90°-100°	217.9	1.3
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°	4493.6	25.8
0°-40°	7319.5	42.0
0°-60°	12234.8	70.2
0°-90°	14530.9	83.4
90°-120°	1384.7	7.9
90°-150°	2521.9	14.5
90°-180°	2898.0	16.6
0°-180°	17428.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5812	5812	5812	5812	5812	
5°	5842	5778	5797	5776	5767	554
15°	5621	5563	5586	5566	5556	1586
25°	5211	5147	5176	5121	5116	2398
35°	4590	4536	4550	4490	4485	2865
45°	3714	3665	3649	3584	3574	2845
55°	2433	2394	2378	2338	2328	2180
65°	1306	1297	1312	1302	1302	1323
75°	706	706	706	711	711	745
85°	180	190	200	200	200	210
90°	3	8	23	12	12	10
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°	5811.6	5811.6	5811.6	5811.6	5811.6
2.5°	5847.7	5796.8	5811.6	5799.0	5771.6
5°	5841.7	5778.1	5796.6	5776.4	5766.6
7.5°	5796.6	5734.0	5752.6	5732.4	5726.5
10°	5756.6	5697.8	5716.5	5696.3	5686.5
12.5°	5712.5	5649.9	5672.5	5648.2	5638.4
15°	5621.4	5562.7	5586.4	5566.1	5556.4
17.5°	5521.3	5458.7	5482.3	5459.0	5446.2
20°	5441.2	5382.5	5406.2	5371.0	5366.1
22.5°	5353.1	5294.4	5318.1	5271.0	5270.0
25°	5211.0	5147.3	5175.9	5120.7	5115.8
27.5°	5041.8	4983.0	5006.7	4950.5	4944.7
30°	4925.6	4866.9	4890.6	4830.3	4820.5
32.5°	4793.5	4738.7	4758.4	4698.2	4692.4
35°	4590.2	4536.4	4550.2	4490.0	4485.1
37.5°	4359.0	4310.0	4317.9	4251.8	4246.9
40°	4194.8	4145.9	4149.7	4079.6	4074.7
42.5°	4014.6	3965.6	3961.5	3891.3	3886.4
45°	3714.2	3665.3	3649.2	3583.9	3574.1
47.5°	3371.9	3322.9	3292.8	3239.5	3232.7
50°	3123.6	3074.6	3048.5	3003.1	2988.4
52.5°	2855.3	2806.3	2784.2	2742.8	2728.1
55°	2432.8	2393.6	2377.7	2337.5	2327.7
57.5°	2031.3	2004.9	2000.3	1961.2	1957.2
60°	1787.0	1772.4	1772.0	1737.0	1737.0
62.5°	1578.8	1568.0	1575.8	1552.7	1548.8
65°	1306.5	1296.7	1311.5	1301.5	1301.5
67.5°	1091.2	1091.2	1100.3	1096.3	1096.3
70°	971.1	971.1	976.1	976.1	976.1
72.5°	863.0	859.1	872.0	871.9	868.0
75°	705.8	705.8	705.8	710.8	710.8
77.5°	549.6	550.6	554.6	553.5	549.6
80°	445.5	450.4	450.5	445.5	445.5
82.5°	341.4	346.3	346.4	345.3	341.4
85°	180.2	190.0	200.2	200.2	200.2
87.5°	52.6	69.4	84.7	82.3	78.4
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)