

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: P519740

Luminaire Tested: **SQ4-125U-0D-830-1D-UNV-STD-W-4**

Issue Date: 4/29/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P519740  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-24)  
Test Lab: INNOVATION CENTER  
Issue Date: 4/29/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-125U-0D-830-1D-UNV-STD-W-4  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE  
UPLIGHT 1250 LUMENS PER FOOT  
Light Source: 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

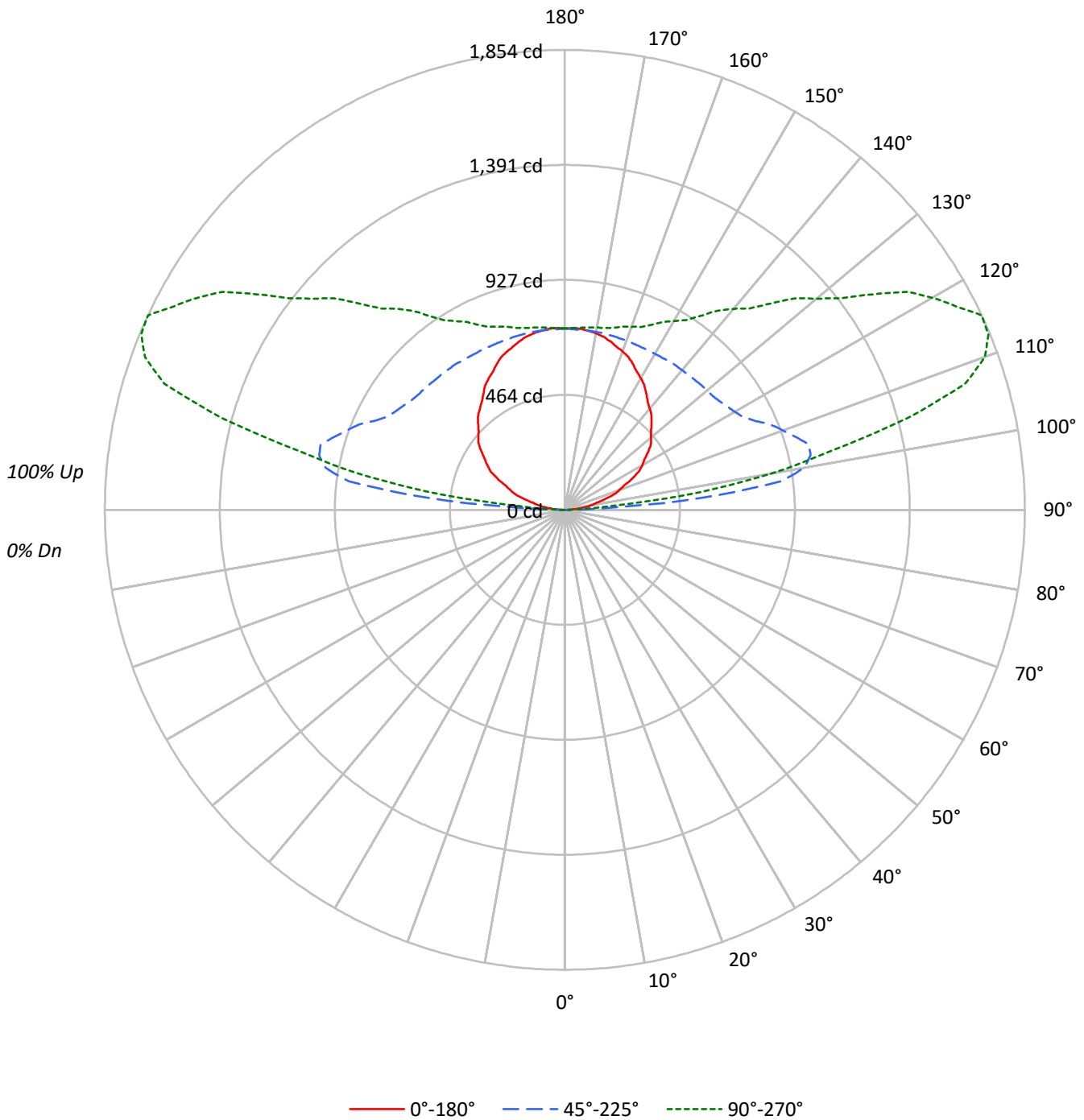
Lumens per Lamp: N/A  
Luminaire Lumens: 4718.8 lumens  
Efficiency: N/A  
Efficacy: 148.9 lumens/watt  
N/A  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Indirect

Input Watts (W): 31.7  
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								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	95	95	95	95	81	81	81	81	56	56	56	32	32	32	10	10	10				0
1	87	83	79	76	74	71	68	65	48	47	45	28	27	26	9	9	8				0
2	79	72	66	62	67	62	57	53	42	40	37	24	23	22	8	7	7				0
3	72	63	57	51	61	54	49	44	37	34	31	21	20	18	7	6	6				0
4	65	56	48	43	56	48	42	37	33	29	26	19	17	16	6	6	5				0
5	60	49	42	36	51	42	36	32	29	25	22	17	15	13	5	5	4				0
6	55	44	36	31	47	38	32	27	26	22	19	15	13	11	5	4	4				0
7	50	39	32	27	43	34	28	23	23	19	17	14	11	10	4	4	3				0
8	47	35	28	23	40	30	24	20	21	17	14	12	10	9	4	3	3				0
9	43	32	25	20	37	27	22	18	19	15	13	11	9	8	4	3	3				0
10	40	29	22	18	34	25	19	16	17	14	11	10	8	7	3	3	2				0

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

	0°	45°	90°
95°	5515	59344	20992
100°	5690	52096	45220
105°	6074	36314	50986
110°	6304	25244	48580
115°	6567	18519	40475
120°	6667	14588	31565
125°	6605	12252	24369
130°	6522	10746	18992
135°	6452	9659	15346
140°	6415	8860	12740
145°	6439	8233	10739
150°	6527	7738	9355
155°	6607	7374	8370
160°	6674	7122	7707
165°	6724	6946	7257
170°	6770	6822	6988
175°	6778	6744	6822



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	0.0	0.0
10°-20°	0.0	0.0
20°-30°	0.0	0.0
30°-40°	0.0	0.0
40°-50°	0.0	0.0
50°-60°	0.0	0.0
60°-70°	0.0	0.0
70°-80°	0.0	0.0
80°-90°	0.0	0.0
90°-100°	342.0	7.2
100°-110°	921.1	19.5
110°-120°	966.7	20.5
120°-130°	784.4	16.6
130°-140°	615.2	13.0
140°-150°	472.3	10.0
150°-160°	339.6	7.2
160°-170°	207.5	4.4
170°-180°	70.0	1.5
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	0.0	0.0
90°-120°	2229.8	47.3
90°-150°	4101.8	86.9
90°-180°	4719.0	100.0
0°-180°	4718.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
90°	2	6	11	12	12	
95°	52	186	561	287	198	58
105°	170	265	1019	1524	1430	179
115°	301	368	848	1639	1854	296
125°	411	472	762	1287	1515	367
135°	494	552	740	1039	1176	382
145°	572	616	731	888	954	359
155°	649	673	724	797	822	299
165°	704	712	727	756	760	199
175°	732	731	728	738	737	70
180°	731	731	731	731	731	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
90°	1.9	5.5	11.2	12.1	12.1
92.5°	22.7	80.3	158.7	76.4	53.1
95°	52.1	186.0	560.6	286.7	198.3
97.5°	83.2	212.9	879.2	734.5	553.9
100°	107.1	223.6	980.5	1025.9	851.1
102.5°	130.2	238.7	1014.0	1244.1	1100.6
105°	170.4	265.1	1018.7	1524.1	1430.3
107.5°	208.4	292.9	975.3	1667.9	1692.1
110°	233.7	313.8	935.8	1712.6	1800.9
112.5°	260.5	334.8	897.8	1702.7	1847.8
115°	300.8	368.1	848.3	1639.1	1854.0
117.5°	337.5	400.6	809.9	1537.6	1776.9
120°	361.3	422.3	790.6	1464.7	1710.6
122.5°	382.2	442.4	776.4	1390.2	1635.3
125°	410.6	471.6	761.7	1287.4	1515.0
127.5°	438.0	498.1	752.4	1196.7	1399.9
130°	454.4	514.5	748.7	1144.7	1323.2
132.5°	470.8	530.2	744.9	1099.0	1262.9
135°	494.5	551.8	740.3	1038.6	1176.1
137.5°	517.0	572.0	737.9	987.4	1100.3
140°	532.6	585.4	735.6	955.8	1057.8
142.5°	549.0	598.2	734.1	926.4	1012.4
145°	571.7	616.4	731.0	888.0	953.5
147.5°	596.3	635.1	727.8	855.6	907.1
150°	612.7	646.4	726.3	835.3	878.1
152.5°	627.6	656.9	725.6	818.7	853.5
155°	649.0	672.7	724.4	796.7	822.2
157.5°	667.8	686.2	724.6	781.3	798.4
160°	679.8	695.2	725.4	772.2	785.0
162.5°	690.2	702.7	726.1	764.7	773.8
165°	704.0	712.2	727.2	756.2	759.8
167.5°	715.1	719.9	728.2	749.6	751.1
170°	722.6	724.4	728.2	745.9	745.9
172.5°	727.1	727.4	728.9	742.1	742.1
175°	731.9	731.0	728.2	738.4	736.6
177.5°	733.9	732.5	728.7	734.7	733.2
180°	731.0	731.0	731.0	731.0	731.0

(END OF REPORT)