

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: P519793

Luminaire Tested: **SQ4-F-025U-050D-835-1D-UNV-STD-W-6**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519793
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, G3-1910-536-17)
Test Lab: INNOVATION CENTER
Issue Date: 4/29/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-F-025U-050D-835-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

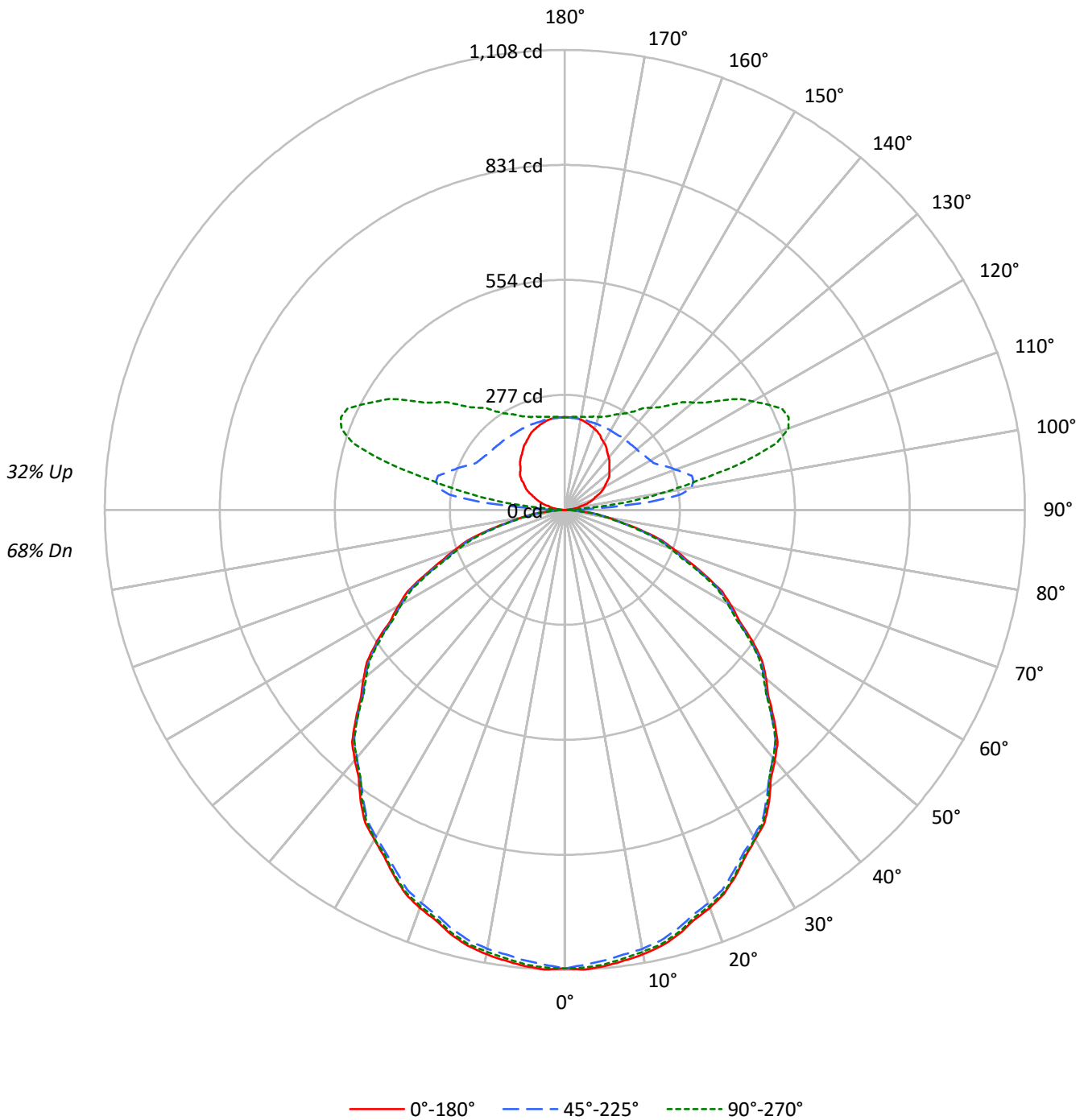
Lumens per Lamp: N/A
Luminaire Lumens: 4465.6 lumens
Efficiency: N/A
Efficacy: 132.1 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 33.8
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	50	30	10	0	
RCR																						
0	111	111	111	111	105	105	105	105	93	93	93	82	82	82	72	72	72	68				
1	102	97	93	90	96	92	88	85	82	79	77	72	70	69	64	62	61	57				
2	93	85	78	73	87	80	75	70	72	67	63	63	60	57	56	54	51	47				
3	84	75	67	61	79	71	64	58	63	58	53	56	52	48	50	46	43	40				
4	77	66	58	51	72	62	55	49	56	50	45	50	45	41	44	40	37	34				
5	71	59	50	44	67	56	48	42	50	44	39	45	40	36	40	36	32	30				
6	65	53	44	38	61	50	42	37	45	39	34	40	35	31	36	32	29	26				
7	60	48	39	34	57	45	38	32	41	35	30	37	32	28	33	29	25	23				
8	56	43	35	30	53	41	34	29	37	31	27	34	28	25	30	26	23	20				
9	52	40	32	27	49	38	31	26	34	28	24	31	26	22	28	24	20	18				
10	49	36	29	24	46	35	28	23	32	26	22	29	24	20	26	22	19	17				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6796	6796	6796
5°	6813	6731	6786
10°	6790	6707	6753
15°	6743	6659	6715
20°	6680	6602	6651
25°	6605	6525	6585
30°	6513	6460	6503
35°	6442	6364	6397
40°	6318	6259	6271
45°	6188	6137	6137
50°	6057	6001	5973
55°	5916	5837	5805
60°	5696	5605	5568
65°	5424	5317	5253
70°	5053	4947	4841
75°	4534	4394	4287
80°	3666	3616	3510
85°	2195	2505	2611



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.2	2.3
10°-20°	296.9	6.6
20°-30°	445.9	10.0
30°-40°	532.3	11.9
40°-50°	545.4	12.2
50°-60°	486.4	10.9
60°-70°	362.3	8.1
70°-80°	196.6	4.4
80°-90°	46.7	1.0
90°-100°	108.9	2.4
100°-110°	286.4	6.4
110°-120°	297.0	6.7
120°-130°	238.2	5.3
130°-140°	186.9	4.2
140°-150°	143.5	3.2
150°-160°	103.3	2.3
160°-170°	63.2	1.4
170°-180°	21.4	0.5
0°-30°	847.0	19.0
0°-40°	1379.3	30.9
0°-60°	2411.1	54.0
0°-90°	3016.8	67.6
90°-120°	692.3	15.5
90°-150°	1261.0	28.2
90°-180°	1449.0	32.4
0°-180°	4465.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1105	1105	1105	1105	1105	
5°	1103	1102	1090	1100	1099	105
15°	1059	1056	1046	1055	1055	298
25°	973	970	961	967	970	448
35°	858	855	848	848	852	535
45°	711	713	706	704	706	549
55°	552	552	544	540	541	491
65°	373	371	365	361	361	369
75°	191	189	185	182	180	202
85°	31	34	36	37	37	43
90°	1	4	12	6	6	2
95°	14	56	188	97	66	16
105°	52	78	317	481	448	55
115°	92	111	254	506	577	91
125°	128	143	231	390	460	113
135°	152	167	224	315	357	118
145°	176	187	221	268	289	110
155°	199	205	221	242	249	92
165°	215	218	221	229	232	61
175°	224	224	222	225	225	21
180°	224	224	224	224	224	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1104.9	1104.9	1104.9	1104.9	1104.9
2.5°	1108.4	1106.2	1096.6	1104.9	1103.7
5°	1103.4	1101.9	1090.1	1100.4	1099.0
7.5°	1095.4	1092.6	1080.9	1091.0	1089.5
10°	1087.1	1084.3	1073.8	1082.7	1081.2
12.5°	1076.5	1074.7	1063.2	1072.0	1071.7
15°	1059.0	1056.2	1045.7	1054.6	1054.6
17.5°	1036.0	1034.2	1024.1	1032.7	1031.5
20°	1020.6	1017.7	1008.7	1016.1	1016.1
22.5°	1001.6	999.9	991.0	997.2	998.4
25°	973.2	970.4	961.4	967.4	970.3
27.5°	941.9	939.6	932.1	936.0	938.0
30°	917.0	917.0	909.6	911.2	915.6
32.5°	894.6	894.6	886.0	887.5	889.5
35°	857.9	855.0	847.5	847.6	852.0
37.5°	815.3	813.8	809.1	808.2	809.4
40°	786.9	785.4	779.5	781.0	781.0
42.5°	758.5	757.0	751.1	749.1	751.4
45°	711.4	712.9	705.5	704.0	705.5
47.5°	665.0	665.0	659.1	655.0	657.3
50°	633.0	633.0	627.1	624.2	624.2
52.5°	599.9	601.1	594.0	589.9	591.0
55°	551.7	551.7	544.3	539.9	541.3
57.5°	498.5	498.5	491.1	486.7	489.3
60°	463.0	463.0	455.6	451.1	452.6
62.5°	427.5	427.5	420.1	415.6	415.9
65°	372.7	371.3	365.3	360.9	360.9
67.5°	320.1	316.3	311.8	305.9	305.9
70°	281.0	279.5	275.1	269.2	269.2
72.5°	245.5	243.0	238.4	233.7	233.7
75°	190.8	189.3	184.9	181.9	180.4
77.5°	136.7	135.5	135.2	131.0	132.2
80°	103.5	103.5	102.1	99.1	99.1
82.5°	74.0	75.1	72.5	71.9	70.7
85°	31.1	33.9	35.5	37.0	37.0
87.5°	6.2	10.3	10.6	10.6	10.6
90°	1.4	4.2	11.5	5.7	5.7
92.5°	6.0	29.0	64.2	28.4	18.4
95°	14.3	56.4	187.7	96.7	66.0
97.5°	24.9	61.9	280.8	223.4	164.5
100°	33.0	66.6	309.5	313.6	243.6
102.5°	39.9	71.2	317.5	390.7	330.7
105°	51.6	78.2	316.7	480.7	448.5
107.5°	63.7	88.3	298.6	527.5	535.4
110°	71.7	94.1	283.7	539.6	573.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	79.7	100.9	269.9	531.9	583.5
115°	91.7	111.4	253.6	506.0	577.4
117.5°	103.4	121.4	242.4	470.1	549.4
120°	110.3	127.1	237.9	446.0	523.0
122.5°	117.2	134.0	234.5	421.8	497.8
125°	127.5	142.9	230.7	389.9	460.0
127.5°	135.8	151.5	227.6	364.2	423.3
130°	140.4	157.2	226.4	348.0	402.6
132.5°	145.0	161.8	225.3	334.2	383.2
135°	151.9	167.3	223.6	314.8	356.8
137.5°	159.1	174.2	223.3	300.2	334.7
140°	164.8	178.8	222.1	288.8	321.0
142.5°	169.4	182.3	222.1	280.6	308.4
145°	176.3	187.4	220.7	268.4	289.4
147.5°	183.1	194.0	220.7	258.4	275.7
150°	187.7	197.5	220.7	252.5	266.5
152.5°	192.3	199.9	220.7	247.9	258.5
155°	199.2	204.7	220.7	242.3	249.3
157.5°	204.4	209.6	220.7	237.4	242.4
160°	207.8	212.0	220.7	235.0	237.9
162.5°	211.2	214.3	220.7	232.8	235.6
165°	215.0	217.7	220.7	229.3	232.2
167.5°	218.4	219.8	222.1	227.9	229.0
170°	220.7	222.0	222.1	227.9	227.9
172.5°	221.9	222.1	222.1	226.6	225.6
175°	223.6	223.6	222.1	225.0	225.0
177.5°	223.6	223.6	222.4	224.6	223.6
180°	223.6	223.6	223.6	223.6	223.6

(END OF REPORT)