

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P521365

Luminaire Tested: **SQ4-F-025U-075D-93050-1D-UNV-STD-W-4 (5000K)**

Issue Date: 5/5/2021

Test Information

Test Method: LM-79-08
Report Number: P521365
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-50,
Test Lab: INNOVATION CENTER
Issue Date: 5/5/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-F-025U-075D-93050-1D-UNV-STD-W-4 (5000K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 3000K/5000K CCT, 90 CRI LEDS, TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

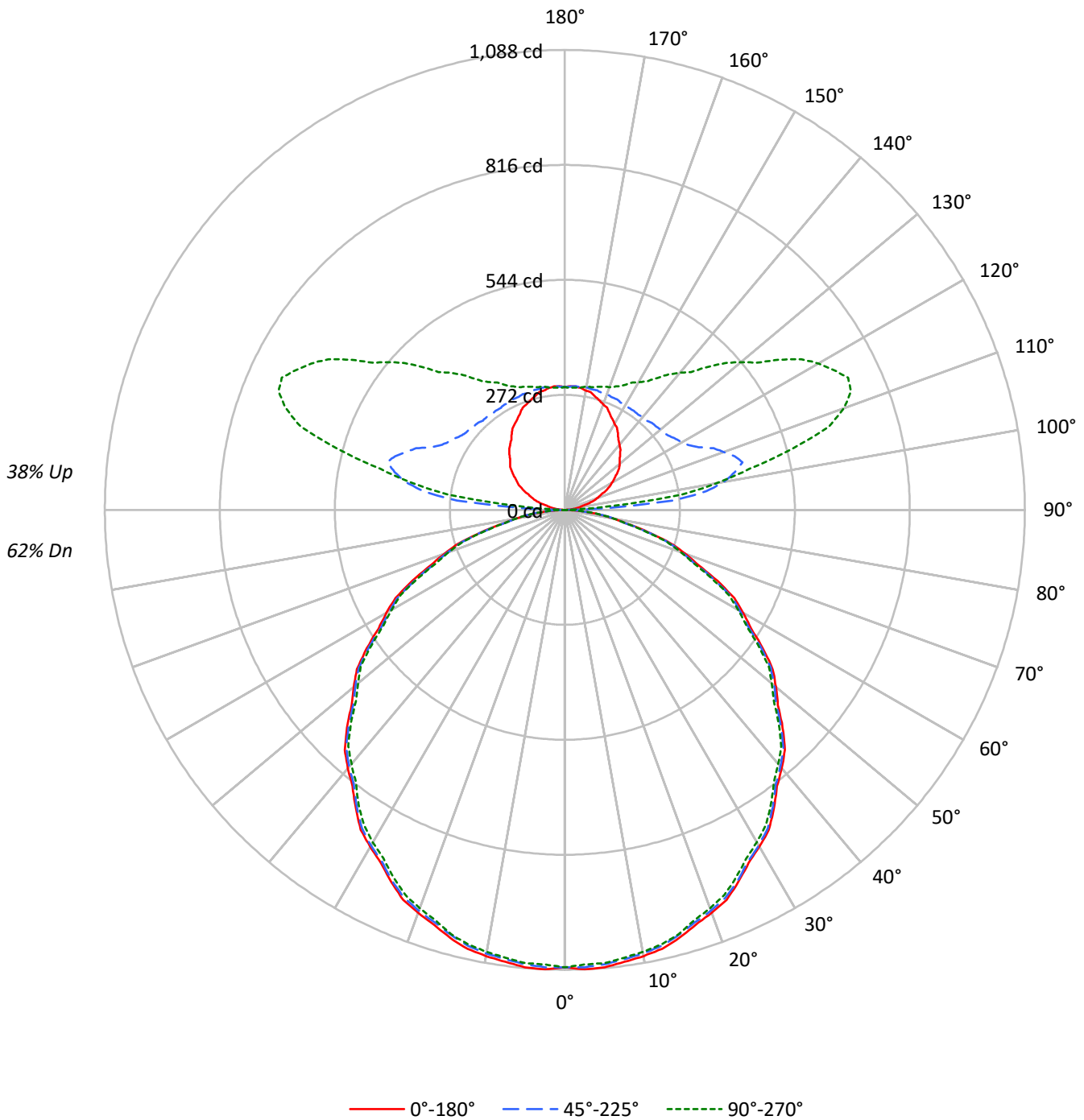
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4966.7 lumens
Efficiency: N/A
Efficacy: 108.4 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.25 / 1.38
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 45.8
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	0
RCR																		
0	110	110	110	110	103	103	103	103	90	90	90	78	78	78	67	67	67	62
1	100	96	92	88	94	90	86	83	79	76	74	69	67	65	59	58	56	52
2	91	83	77	72	85	78	73	68	69	64	61	60	57	54	52	49	47	43
3	83	73	66	60	77	69	62	57	61	55	51	53	49	45	46	43	40	36
4	76	65	56	50	71	61	54	48	54	48	43	47	42	39	41	37	34	31
5	70	58	49	43	65	54	47	41	48	42	37	42	37	33	37	33	30	27
6	64	52	43	37	60	49	41	36	43	37	32	38	33	29	33	29	26	23
7	59	47	38	33	55	44	37	31	39	33	28	35	30	26	30	26	23	21
8	55	42	34	29	51	40	33	28	36	30	25	32	27	23	28	24	21	18
9	51	39	31	26	48	37	30	25	33	27	23	29	24	21	26	22	19	17
10	48	35	28	23	45	34	27	22	30	24	20	27	22	19	24	20	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9984	9984	9984
5°	10060	9993	9965
10°	10042	9984	9946
15°	10013	9944	9925
20°	9961	9911	9850
25°	9889	9847	9764
30°	9803	9770	9672
35°	9707	9660	9579
40°	9615	9552	9453
45°	9507	9426	9333
50°	9354	9281	9163
55°	9198	9082	8966
60°	8981	8829	8735
65°	8702	8479	8366
70°	8182	7961	7877
75°	7304	7158	7051
80°	6041	6100	6041
85°	4340	4880	5102



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.4	2.1
10°-20°	293.3	5.9
20°-30°	443.6	8.9
30°-40°	534.1	10.8
40°-50°	554.8	11.2
50°-60°	503.4	10.1
60°-70°	383.9	7.7
70°-80°	213.9	4.3
80°-90°	56.2	1.1
90°-100°	149.8	3.0
100°-110°	361.9	7.3
110°-120°	386.0	7.8
120°-130°	312.7	6.3
130°-140°	242.1	4.9
140°-150°	184.7	3.7
150°-160°	133.7	2.7
160°-170°	82.3	1.7
170°-180°	27.9	0.6
0°-30°	839.4	16.9
0°-40°	1373.5	27.7
0°-60°	2431.7	49.0
0°-90°	3085.7	62.1
90°-120°	897.7	18.1
90°-150°	1637.1	33.0
90°-180°	1881.0	37.9
0°-180°	4966.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1082	1082	1082	1082	1082	
5°	1086	1076	1079	1077	1076	103
15°	1048	1036	1041	1039	1039	296
25°	971	961	967	958	959	447
35°	862	856	858	848	850	539
45°	729	722	722	713	715	561
55°	572	569	565	557	557	510
65°	399	395	388	382	383	393
75°	205	204	201	199	198	218
85°	41	46	46	48	48	50
90°	0	0	0	0	0	2
95°	15	75	257	167	117	17
105°	58	100	435	563	556	61
115°	106	135	350	663	739	105
125°	151	174	303	527	619	135
135°	185	207	291	416	478	143
145°	219	235	286	353	381	137
155°	251	262	289	313	324	116
165°	278	282	293	297	302	78
175°	294	292	294	291	290	28
180°	290	290	290	290	290	

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CATALOG NUMBER: SQ4-F-025U-075D-93050-1D-UNV-STD-W-4 (5000K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1082.1	1082.1	1082.1	1082.1	1082.1
2.5°	1087.8	1079.8	1082.9	1080.4	1076.4
5°	1086.2	1076.2	1079.0	1077.0	1076.0
7.5°	1078.4	1068.4	1072.3	1069.2	1069.0
10°	1071.9	1061.8	1065.7	1062.6	1061.6
12.5°	1063.7	1052.8	1056.7	1053.6	1053.4
15°	1048.3	1036.3	1041.1	1039.1	1039.1
17.5°	1029.2	1017.4	1023.3	1019.6	1018.0
20°	1014.5	1003.5	1009.4	1003.2	1003.2
22.5°	998.9	987.9	993.0	986.0	986.0
25°	971.4	961.4	967.3	958.1	959.1
27.5°	941.5	932.5	937.6	928.8	929.2
30°	920.2	911.2	917.1	905.9	907.9
32.5°	898.1	889.9	893.4	883.7	884.1
35°	861.8	855.8	857.7	848.5	850.5
37.5°	824.5	817.5	819.4	810.0	812.0
40°	798.3	791.2	793.1	782.9	784.9
42.5°	770.4	764.2	765.3	755.1	757.9
45°	728.6	721.6	722.4	713.3	715.3
47.5°	683.7	678.1	676.9	668.6	670.4
50°	651.7	647.7	646.6	637.4	638.4
52.5°	619.8	616.5	613.8	605.5	608.1
55°	571.8	568.8	564.6	557.4	557.4
57.5°	522.0	519.0	513.8	506.7	508.7
60°	486.7	483.7	478.5	471.4	473.4
62.5°	451.5	448.5	442.5	436.1	437.4
65°	398.6	394.6	388.4	382.2	383.2
67.5°	341.8	338.0	332.8	326.9	328.1
70°	303.3	300.3	295.1	290.0	292.0
72.5°	263.1	260.1	255.8	253.1	252.7
75°	204.9	203.9	200.8	198.8	197.8
77.5°	149.8	151.2	147.6	146.7	146.5
80°	113.7	116.8	114.8	114.7	113.7
82.5°	81.8	86.4	85.3	85.3	85.1
85°	41.0	46.0	46.1	48.2	48.2
87.5°	11.5	16.3	18.9	19.7	19.7
90°	0.0	0.0	0.0	0.0	0.0
92.5°	4.9	40.5	95.5	46.4	31.5
95°	14.8	74.9	256.6	166.8	116.9
97.5°	26.2	83.0	337.9	325.6	279.5
100°	35.1	88.0	382.7	404.0	366.1
102.5°	43.4	92.5	412.2	469.3	446.8
105°	57.8	100.0	435.0	562.8	555.6
107.5°	72.0	108.7	421.6	637.8	654.8
110°	81.8	116.1	399.9	670.2	702.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	91.7	123.6	380.7	678.1	732.6
115°	105.8	135.3	349.5	662.6	739.0
117.5°	119.9	147.7	331.2	626.9	716.4
120°	129.2	155.1	319.3	599.0	692.8
122.5°	139.1	163.0	312.0	570.4	662.8
125°	150.7	173.6	303.3	526.9	619.0
127.5°	162.3	183.9	297.3	490.1	571.0
130°	169.2	190.3	295.3	464.5	543.9
132.5°	175.6	197.6	292.4	446.0	513.4
135°	185.2	206.9	291.0	415.5	478.1
137.5°	194.3	216.1	286.7	394.9	442.0
140°	201.2	221.1	286.7	380.0	423.3
142.5°	208.1	227.9	284.3	367.1	403.6
145°	219.0	235.3	285.5	353.2	380.9
147.5°	229.3	245.0	284.8	337.2	360.1
150°	235.7	249.5	286.7	330.2	348.3
152.5°	242.5	255.9	286.2	322.8	338.9
155°	251.0	261.9	289.2	312.8	324.3
157.5°	261.3	270.5	288.6	309.0	315.8
160°	265.2	273.0	291.0	304.1	308.9
162.5°	271.6	278.4	290.0	302.5	305.4
165°	277.5	281.7	292.9	297.3	301.5
167.5°	284.8	287.5	292.1	296.9	297.1
170°	286.7	288.5	294.1	293.6	296.6
172.5°	290.2	291.5	292.6	293.9	292.1
175°	293.5	292.3	293.5	291.0	290.4
177.5°	292.9	292.9	291.9	290.9	288.5
180°	290.4	290.4	290.4	290.4	290.4

(END OF REPORT)