

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: P521362

Luminaire Tested: **SQ4-F-025U-075D-93050-1D-UNV-STD-W-4 (3500K)**

Issue Date: 5/5/2021

Test Information

Test Method: LM-79-08
Report Number: P521362
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 (3500K)
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 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

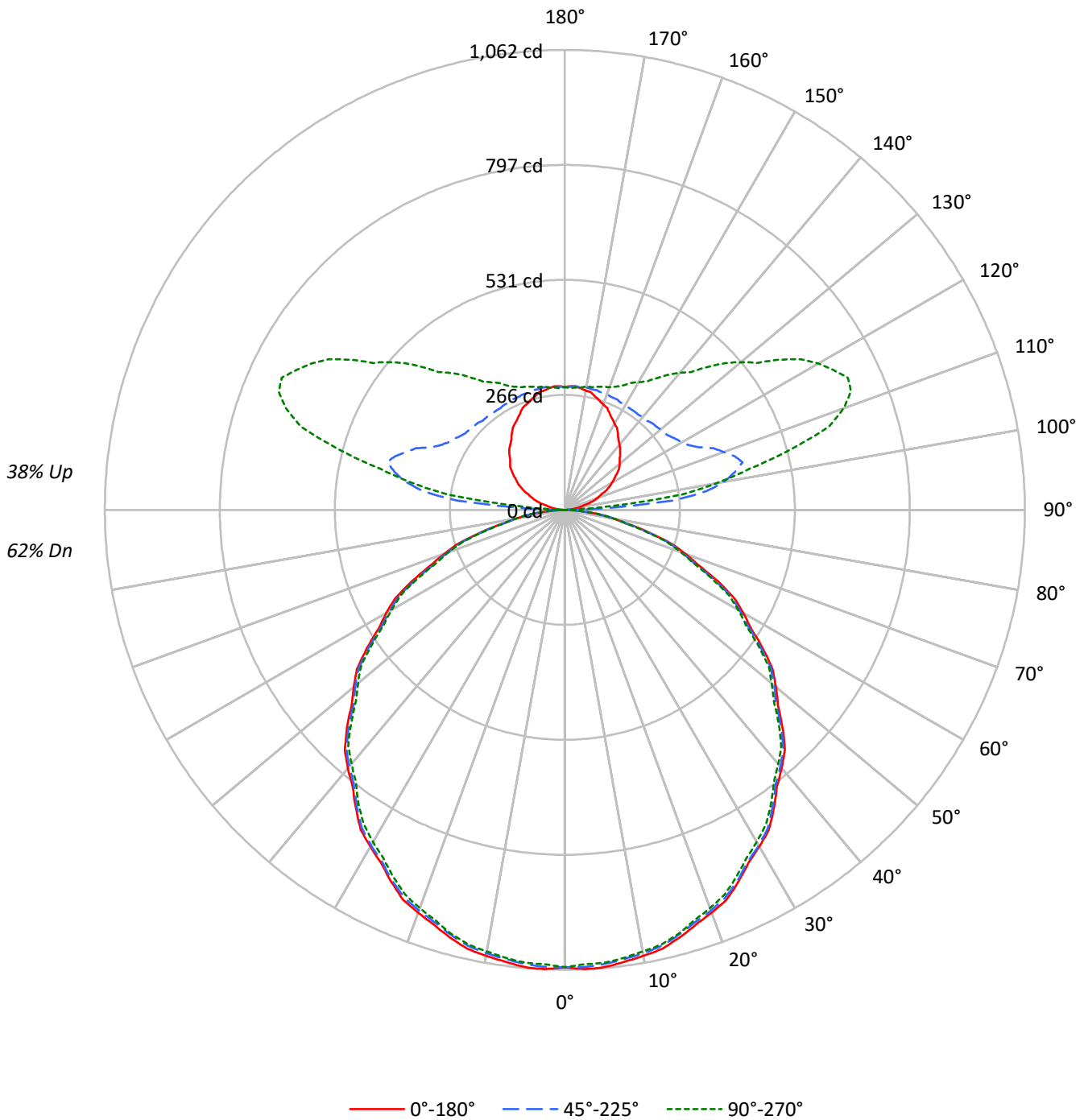
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4846.9 lumens
Efficiency: N/A
Efficacy: 105.6 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): 45.9
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°	9743	9743	9743
5°	9817	9752	9725
10°	9799	9743	9706
15°	9771	9704	9685
20°	9720	9671	9612
25°	9651	9610	9528
30°	9567	9535	9439
35°	9472	9427	9348
40°	9382	9322	9226
45°	9277	9199	9107
50°	9129	9057	8942
55°	8976	8863	8750
60°	8765	8617	8525
65°	8492	8274	8165
70°	7985	7769	7688
75°	7129	6987	6880
80°	5898	5951	5898
85°	4234	4764	4975



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.9	2.1
10°-20°	286.2	5.9
20°-30°	432.9	8.9
30°-40°	521.2	10.8
40°-50°	541.4	11.2
50°-60°	491.3	10.1
60°-70°	374.7	7.7
70°-80°	208.8	4.3
80°-90°	54.8	1.1
90°-100°	146.1	3.0
100°-110°	353.2	7.3
110°-120°	376.7	7.8
120°-130°	305.1	6.3
130°-140°	236.2	4.9
140°-150°	180.2	3.7
150°-160°	130.4	2.7
160°-170°	80.3	1.7
170°-180°	27.2	0.6
0°-30°	819.1	16.9
0°-40°	1340.3	27.7
0°-60°	2373.0	49.0
0°-90°	3011.3	62.1
90°-120°	876.1	18.1
90°-150°	1597.6	33.0
90°-180°	1836.0	37.9
0°-180°	4846.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1056	1056	1056	1056	1056	
5°	1060	1050	1053	1051	1050	101
15°	1023	1011	1016	1014	1014	289
25°	948	938	944	935	936	437
35°	841	835	837	828	830	526
45°	711	704	705	696	698	548
55°	558	555	551	544	544	498
65°	389	385	379	373	374	383
75°	200	199	196	194	193	213
85°	40	45	45	47	47	49
90°	0	0	0	0	0	2
95°	14	73	250	163	114	16
105°	56	98	424	549	542	60
115°	103	132	341	647	721	102
125°	147	169	296	514	604	131
135°	181	202	284	406	466	140
145°	214	230	279	345	372	134
155°	245	256	282	305	316	113
165°	271	275	286	290	294	76
175°	286	285	286	284	283	27
180°	283	283	283	283	283	

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CATALOG NUMBER: SQ4-F-025U-075D-93050-1D-UNV-STD-W-4 (3500K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1056.0	1056.0	1056.0	1056.0	1056.0
2.5°	1061.6	1053.8	1056.8	1054.3	1050.4
5°	1060.0	1050.2	1053.0	1051.0	1050.0
7.5°	1052.4	1042.6	1046.4	1043.4	1043.2
10°	1046.0	1036.2	1040.0	1037.0	1036.0
12.5°	1038.0	1027.4	1031.2	1028.2	1028.0
15°	1023.0	1011.3	1016.0	1014.0	1014.0
17.5°	1004.4	992.9	998.6	995.0	993.4
20°	990.0	979.2	985.0	979.0	979.0
22.5°	974.8	964.0	969.0	962.2	962.2
25°	948.0	938.2	944.0	935.0	936.0
27.5°	918.8	910.0	915.0	906.4	906.8
30°	898.0	889.2	895.0	884.0	886.0
32.5°	876.4	868.4	871.8	862.4	862.8
35°	841.0	835.1	837.0	828.0	830.0
37.5°	804.6	797.8	799.6	790.4	792.4
40°	779.0	772.2	774.0	764.0	766.0
42.5°	751.8	745.7	746.8	736.9	739.6
45°	711.0	704.2	705.0	696.0	698.0
47.5°	667.2	661.7	660.6	652.4	654.2
50°	636.0	632.1	631.0	622.0	623.0
52.5°	604.8	601.7	599.0	590.9	593.4
55°	558.0	555.1	551.0	544.0	544.0
57.5°	509.4	506.5	501.4	494.4	496.4
60°	475.0	472.1	467.0	460.0	462.0
62.5°	440.6	437.7	431.8	425.6	426.8
65°	389.0	385.1	379.0	373.0	374.0
67.5°	333.6	329.9	324.8	319.0	320.2
70°	296.0	293.1	288.0	283.0	285.0
72.5°	256.8	253.9	249.6	247.0	246.6
75°	200.0	199.0	196.0	194.0	193.0
77.5°	146.2	147.6	144.0	143.2	143.0
80°	111.0	113.9	112.0	112.0	111.0
82.5°	79.8	84.3	83.2	83.2	83.0
85°	40.0	44.9	45.0	47.0	47.0
87.5°	11.2	15.9	18.4	19.2	19.2
90°	0.0	0.0	0.0	0.0	0.0
92.5°	4.8	39.6	93.2	45.3	30.7
95°	14.4	73.1	250.4	162.8	114.1
97.5°	25.6	81.0	329.8	317.7	272.7
100°	34.2	85.9	373.5	394.3	357.3
102.5°	42.4	90.3	402.3	458.0	436.0
105°	56.4	97.5	424.5	549.3	542.2
107.5°	70.3	106.1	411.4	622.4	639.0
110°	79.9	113.3	390.3	654.0	685.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	89.5	120.6	371.6	661.7	714.9
115°	103.3	132.0	341.1	646.6	721.1
117.5°	117.0	144.1	323.2	611.8	699.2
120°	126.1	151.3	311.6	584.5	676.1
122.5°	135.7	159.1	304.4	556.6	646.8
125°	147.1	169.4	296.0	514.2	604.1
127.5°	158.4	179.4	290.1	478.3	557.2
130°	165.1	185.7	288.2	453.3	530.8
132.5°	171.4	192.9	285.3	435.3	501.0
135°	180.7	201.9	284.0	405.5	466.5
137.5°	189.6	210.9	279.8	385.3	431.4
140°	196.3	215.7	279.8	370.8	413.1
142.5°	203.1	222.4	277.4	358.2	393.9
145°	213.8	229.6	278.6	344.7	371.7
147.5°	223.7	239.1	277.9	329.1	351.4
150°	230.0	243.5	279.8	322.2	339.9
152.5°	236.7	249.7	279.3	315.0	330.7
155°	245.0	255.6	282.2	305.3	316.4
157.5°	255.0	264.0	281.6	301.6	308.2
160°	258.8	266.4	284.0	296.7	301.4
162.5°	265.0	271.7	283.1	295.2	298.1
165°	270.8	274.9	285.8	290.1	294.2
167.5°	277.9	280.6	285.1	289.8	289.9
170°	279.8	281.6	287.0	286.5	289.4
172.5°	283.2	284.5	285.6	286.9	285.1
175°	286.4	285.2	286.4	284.0	283.4
177.5°	285.8	285.8	284.9	283.8	281.5
180°	283.4	283.4	283.4	283.4	283.4

(END OF REPORT)