

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: P523633

Luminaire Tested: **SQ4-PP3-025U-075D-92765-1D-UNV-STD-W-4 (3000K)**

Issue Date: 5/24/2021

Test Information

Test Method: LM-79-2019
Report Number: P523633
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, G2-2103-172-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/24/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PP3-025U-075D-92765-1D-UNV-STD-W-4 (3000K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4828.9 lumens
Efficiency: N/A
Efficacy: 105.2 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

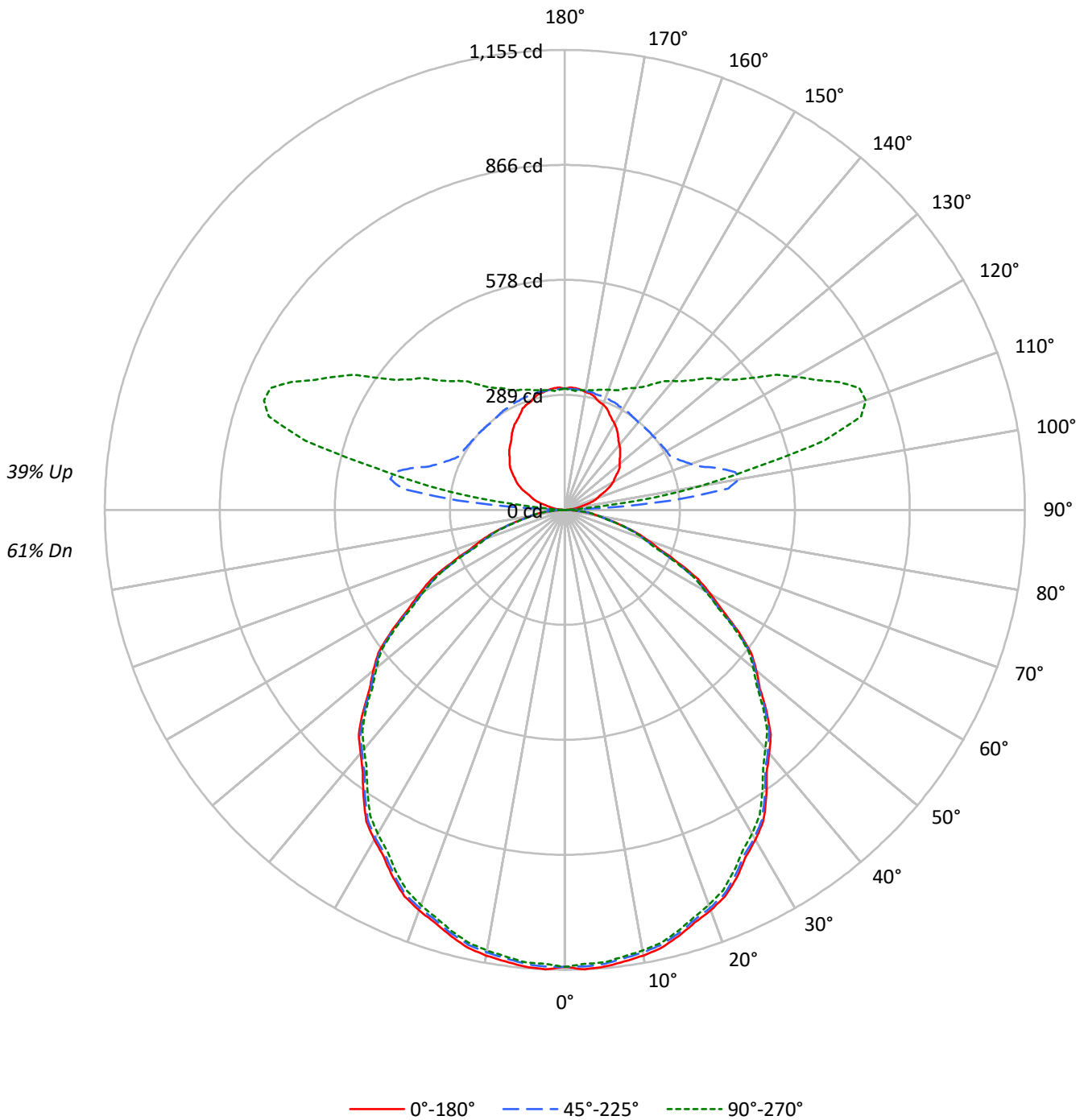
Input Watts (W): 45.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	89	89	89	77	77	77	66	66	66	61
1	100	96	92	89	94	90	87	84	79	76	74	68	67	65	59	58	56	52
2	92	84	78	73	86	79	74	69	69	65	62	60	57	55	52	50	48	44
3	84	74	67	61	78	70	63	58	61	56	52	54	50	46	46	43	41	37
4	77	66	58	52	72	62	55	49	55	49	45	48	43	40	41	38	35	32
5	71	59	51	45	66	55	48	42	49	43	39	43	38	35	37	34	31	28
6	65	53	45	39	61	50	42	37	44	38	34	39	34	30	34	30	27	25
7	60	48	40	34	56	45	38	33	40	34	30	35	31	27	31	27	24	22
8	56	43	36	30	52	41	34	29	37	31	26	32	28	24	28	25	22	19
9	52	40	32	27	49	38	31	26	34	28	24	30	25	22	26	22	20	18
10	49	36	29	24	46	35	28	23	31	25	21	28	23	20	24	21	18	16

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10589	10589	10589
5°	10666	10602	10565
10°	10648	10573	10526
15°	10578	10520	10463
20°	10509	10449	10370
25°	10384	10311	10210
30°	10191	10138	10009
35°	9925	9856	9732
40°	9607	9546	9438
45°	9345	9280	9187
50°	9010	8951	8865
55°	8543	8430	8364
60°	7778	7554	7518
65°	6851	6567	6545
70°	5916	5670	5670
75°	5090	5019	4948
80°	4490	4543	4436
85°	3515	3832	3832



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.5	2.2
10°-20°	309.9	6.4
20°-30°	464.2	9.6
30°-40°	544.4	11.3
40°-50°	546.1	11.3
50°-60°	465.9	9.6
60°-70°	303.8	6.3
70°-80°	152.4	3.2
80°-90°	42.2	0.9
90°-100°	138.8	2.9
100°-110°	394.8	8.2
110°-120°	378.2	7.8
120°-130°	299.4	6.2
130°-140°	240.3	5.0
140°-150°	188.1	3.9
150°-160°	137.6	2.9
160°-170°	85.3	1.8
170°-180°	28.9	0.6
0°-30°	882.6	18.3
0°-40°	1427.0	29.6
0°-60°	2439.0	50.5
0°-90°	2937.5	60.8
90°-120°	911.8	18.9
90°-150°	1639.5	34.0
90°-180°	1891.0	39.2
0°-180°	4828.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1148	1148	1148	1148	1148	
5°	1152	1141	1145	1141	1141	109
15°	1108	1097	1101	1097	1095	312
25°	1020	1008	1013	1004	1003	469
35°	881	872	875	865	864	550
45°	716	711	711	704	704	551
55°	531	529	524	521	520	472
65°	314	308	301	299	300	313
75°	143	143	141	140	139	155
85°	33	36	36	36	36	39
90°	0	0	0	0	0	2
95°	15	60	269	93	57	17
105°	61	93	402	711	676	65
115°	114	138	305	646	759	112
125°	161	178	291	483	578	144
135°	197	213	288	408	461	152
145°	232	244	290	353	385	145
155°	265	271	297	319	332	123
165°	293	294	300	307	311	82
175°	307	305	304	302	300	29
180°	304	304	304	304	304	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1147.7	1147.7	1147.7	1147.7	1147.7
2.5°	1155.0	1145.5	1147.7	1146.0	1141.3
5°	1151.7	1140.9	1144.7	1140.7	1140.7
7.5°	1143.9	1132.1	1135.8	1131.8	1131.6
10°	1136.6	1124.8	1128.6	1124.6	1123.6
12.5°	1126.2	1114.4	1118.9	1114.1	1113.9
15°	1107.5	1096.7	1101.4	1097.4	1095.4
17.5°	1086.4	1074.6	1080.3	1074.7	1073.9
20°	1070.3	1058.5	1064.2	1056.2	1056.2
22.5°	1050.9	1039.1	1045.7	1035.3	1035.3
25°	1020.0	1008.2	1012.9	1003.8	1002.9
27.5°	983.1	971.5	976.5	966.2	966.0
30°	956.6	945.8	951.6	940.5	939.5
32.5°	927.6	917.6	921.8	910.7	909.7
35°	881.2	872.3	875.1	865.0	864.1
37.5°	832.3	823.2	826.4	817.8	817.4
40°	797.7	791.8	792.6	785.5	783.6
42.5°	765.5	758.8	759.6	752.6	752.2
45°	716.2	711.3	711.2	704.1	704.1
47.5°	663.9	660.1	659.1	653.2	653.0
50°	627.7	624.7	623.6	618.6	617.6
52.5°	589.8	588.5	585.0	580.8	580.6
55°	531.1	529.1	524.1	521.0	520.0
57.5°	467.3	463.4	457.7	453.3	454.1
60°	421.5	417.5	409.4	407.4	407.4
62.5°	377.2	372.5	364.3	361.5	363.1
65°	313.8	307.9	300.8	298.8	299.8
67.5°	256.3	251.0	243.2	243.2	242.4
70°	219.3	216.3	210.2	210.2	210.2
72.5°	186.3	184.9	180.5	180.4	179.7
75°	142.8	142.8	140.8	139.8	138.8
77.5°	107.0	107.4	106.4	105.4	103.6
80°	84.5	86.5	85.5	84.5	83.5
82.5°	63.6	65.5	65.4	63.6	63.4
85°	33.2	36.1	36.2	36.2	36.2
87.5°	8.9	12.0	12.9	12.9	13.7
90°	0.0	0.0	0.0	0.0	0.0
92.5°	4.6	24.6	57.0	16.6	12.5
95°	15.1	59.8	268.6	93.0	57.3
97.5°	27.7	70.0	413.7	296.0	202.8
100°	36.5	76.1	445.1	450.9	347.3
102.5°	46.2	82.6	438.2	577.2	486.7
105°	61.4	93.1	402.3	710.6	675.5
107.5°	76.8	105.2	360.4	748.3	779.5
110°	87.4	114.0	336.3	733.9	804.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	97.6	122.8	320.1	699.8	799.9
115°	114.0	137.8	305.1	646.3	758.9
117.5°	128.5	150.8	296.1	587.7	707.0
120°	140.1	158.8	295.2	554.3	668.6
122.5°	149.3	168.0	292.9	524.9	631.1
125°	160.9	178.5	291.2	483.2	577.7
127.5°	173.5	190.0	290.2	458.3	536.1
130°	180.0	196.4	288.9	440.9	508.8
132.5°	187.0	202.9	288.9	427.3	489.8
135°	196.8	213.2	287.7	408.2	461.4
137.5°	206.1	222.0	287.6	391.9	437.9
140°	213.0	229.4	287.1	378.4	422.6
142.5°	220.9	234.6	288.5	367.7	407.3
145°	232.1	244.0	290.0	353.2	384.9
147.5°	241.7	253.3	292.6	338.7	366.1
150°	250.1	258.0	293.5	333.9	353.1
152.5°	256.6	264.9	294.4	327.3	345.2
155°	265.1	271.3	297.0	319.3	332.3
157.5°	275.8	279.5	297.5	315.6	324.9
160°	281.3	284.2	299.9	312.8	320.7
162.5°	284.6	287.9	300.3	310.4	316.5
165°	292.9	294.0	300.4	306.9	311.4
167.5°	298.6	297.6	303.1	306.0	307.8
170°	300.4	299.9	302.2	302.8	305.1
172.5°	304.6	302.7	303.6	301.9	303.7
175°	306.8	305.1	303.9	302.1	299.9
177.5°	307.7	305.0	303.6	301.7	302.2
180°	304.5	304.5	304.5	304.5	304.5

(END OF REPORT)