

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: P523685

Luminaire Tested: **SQ4-PP3-050U-075D-92765-1D-UNV-STD-W-4 (3000K)**

Issue Date: 5/24/2021

Test Information

Test Method: LM-79-2019
Report Number: P523685
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-PP3-050U-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 500 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

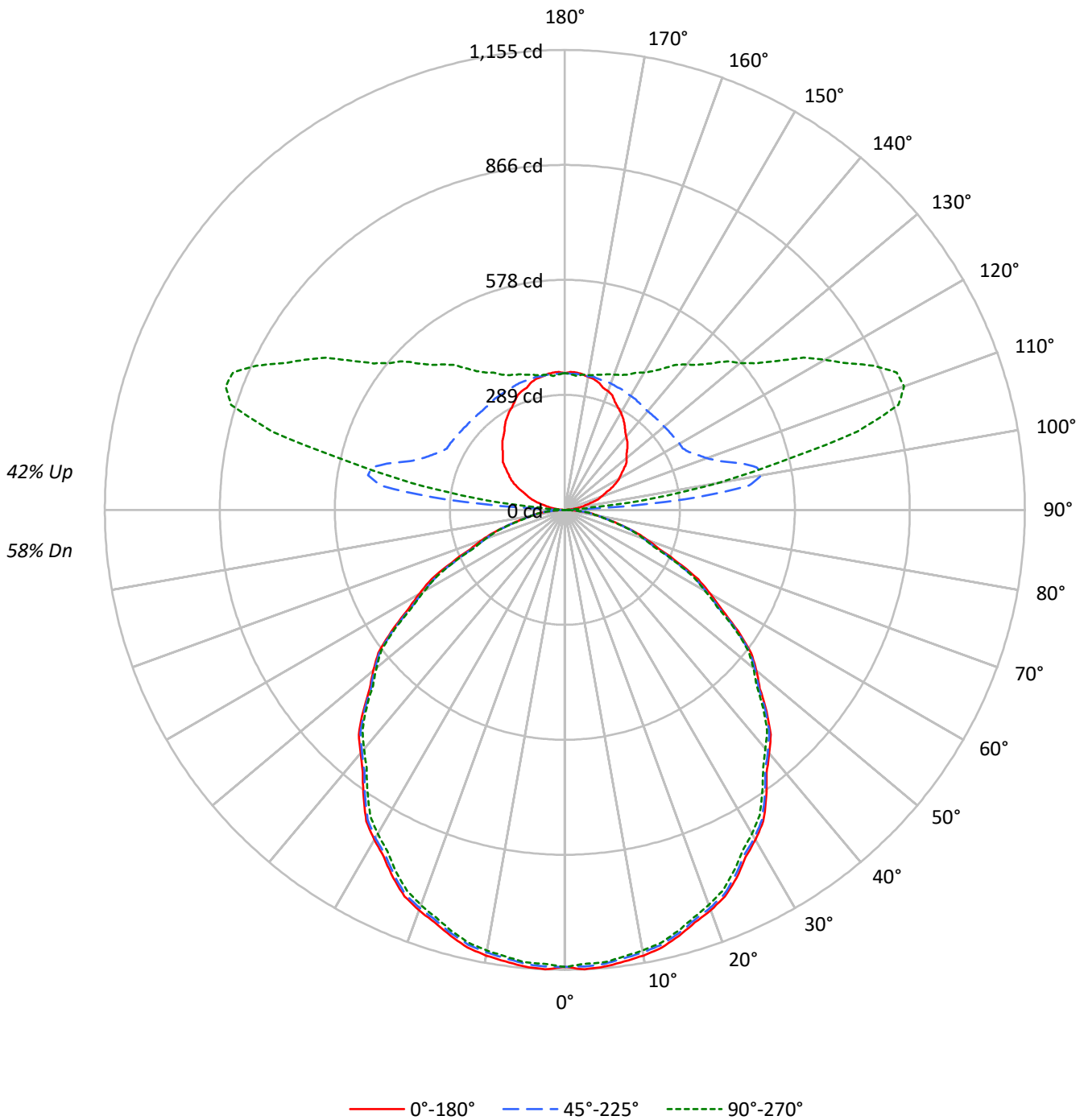
Lumens per Lamp: N/A
Luminaire Lumens: 5069.1 lumens
Efficiency: N/A
Efficacy: 106.3 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 47.7
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				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	109	109	109	109	102	102	102	102	88	88	88	75	75	75	63	63	63	58
1	100	96	92	88	93	89	86	83	77	75	73	66	65	63	56	55	54	49
2	91	84	78	72	85	78	73	68	68	64	61	59	56	53	50	48	46	42
3	83	74	66	61	77	69	63	57	60	55	51	52	48	45	44	42	39	35
4	76	65	57	51	71	61	54	49	54	48	44	46	42	39	40	37	34	31
5	70	58	50	44	65	55	47	42	48	42	38	42	37	34	36	32	30	27
6	65	52	44	38	60	49	42	37	43	37	33	38	33	30	33	29	26	23
7	60	47	39	34	56	45	37	32	39	33	29	34	30	26	30	26	23	21
8	55	43	35	30	52	41	33	29	36	30	26	31	27	23	27	24	21	19
9	52	39	32	27	48	37	30	26	33	27	23	29	24	21	25	22	19	17
10	48	36	29	24	45	34	27	23	30	25	21	27	22	19	23	20	17	15

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	2.1
10°-20°	309.9	6.1
20°-30°	464.2	9.2
30°-40°	544.4	10.7
40°-50°	546.1	10.8
50°-60°	465.9	9.2
60°-70°	303.8	6.0
70°-80°	152.4	3.0
80°-90°	42.2	0.8
90°-100°	156.4	3.1
100°-110°	444.9	8.8
110°-120°	426.3	8.4
120°-130°	337.4	6.7
130°-140°	270.8	5.3
140°-150°	212.0	4.2
150°-160°	155.1	3.1
160°-170°	96.1	1.9
170°-180°	32.6	0.6
0°-30°	882.6	17.4
0°-40°	1427.0	28.2
0°-60°	2439.0	48.1
0°-90°	2937.5	57.9
90°-120°	1027.6	20.3
90°-150°	1847.8	36.5
90°-180°	2132.0	42.1
0°-180°	5069.1	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°	17	67	303	105	65	19
105°	69	105	453	801	761	73
115°	128	155	344	728	855	127
125°	181	201	328	545	651	162
135°	222	240	324	460	520	171
145°	262	275	327	398	434	163
155°	299	306	335	360	374	138
165°	330	331	339	346	351	93
175°	346	344	342	340	338	33
180°	343	343	343	343	343	

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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°	5.2	27.7	64.2	18.7	14.1
95°	17.0	67.4	302.7	104.8	64.6
97.5°	31.2	78.9	466.2	333.6	228.6
100°	41.1	85.8	501.7	508.2	391.4
102.5°	52.1	93.1	493.9	650.5	548.5
105°	69.2	104.9	453.4	800.9	761.3
107.5°	86.5	118.5	406.2	843.3	878.5
110°	98.5	128.5	379.0	827.1	906.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	<i>110.0</i>	138.4	360.8	788.7	901.5
115°	<i>128.5</i>	155.3	343.8	728.3	855.3
117.5°	<i>144.8</i>	170.0	333.8	662.4	796.8
120°	<i>157.9</i>	178.9	332.7	624.7	753.5
122.5°	<i>168.3</i>	189.4	330.1	591.6	711.2
125°	<i>181.4</i>	201.1	328.2	544.6	651.1
127.5°	<i>195.6</i>	214.1	327.1	516.5	604.2
130°	<i>202.9</i>	221.4	325.5	496.9	573.4
132.5°	<i>210.7</i>	228.7	325.5	481.6	552.1
135°	<i>221.8</i>	240.3	324.2	460.0	520.0
137.5°	<i>232.3</i>	250.2	324.1	441.7	493.5
140°	<i>240.1</i>	258.6	323.6	426.5	476.2
142.5°	<i>249.0</i>	264.4	325.2	414.4	459.0
145°	<i>261.6</i>	275.0	326.8	398.1	433.8
147.5°	<i>272.4</i>	285.5	329.7	381.7	412.6
150°	<i>281.8</i>	290.8	330.8	376.3	398.0
152.5°	<i>289.1</i>	298.6	331.8	368.9	389.1
155°	<i>298.8</i>	305.8	334.7	359.8	374.5
157.5°	<i>310.8</i>	315.0	335.3	355.7	366.1
160°	<i>317.1</i>	320.3	337.9	352.5	361.4
162.5°	<i>320.7</i>	324.4	338.5	349.8	356.7
165°	<i>330.1</i>	331.4	338.6	345.9	351.0
167.5°	<i>336.5</i>	335.4	341.6	344.9	346.9
170°	<i>338.6</i>	338.0	340.5	341.3	343.8
172.5°	<i>343.3</i>	341.1	342.1	340.2	342.2
175°	<i>345.8</i>	343.9	342.5	340.5	337.9
177.5°	<i>346.8</i>	343.7	342.1	340.0	340.5
180°	<i>343.2</i>	343.2	343.2	343.2	343.2

(END OF REPORT)