

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: P523691

Luminaire Tested: **SQ4-PP3-050U-075D-92765-1D-UNV-STD-W-4 (6500K)**

Issue Date: 5/24/2021

Test Information

Test Method: LM-79-2019
Report Number: P523691
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 (6500K)
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 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

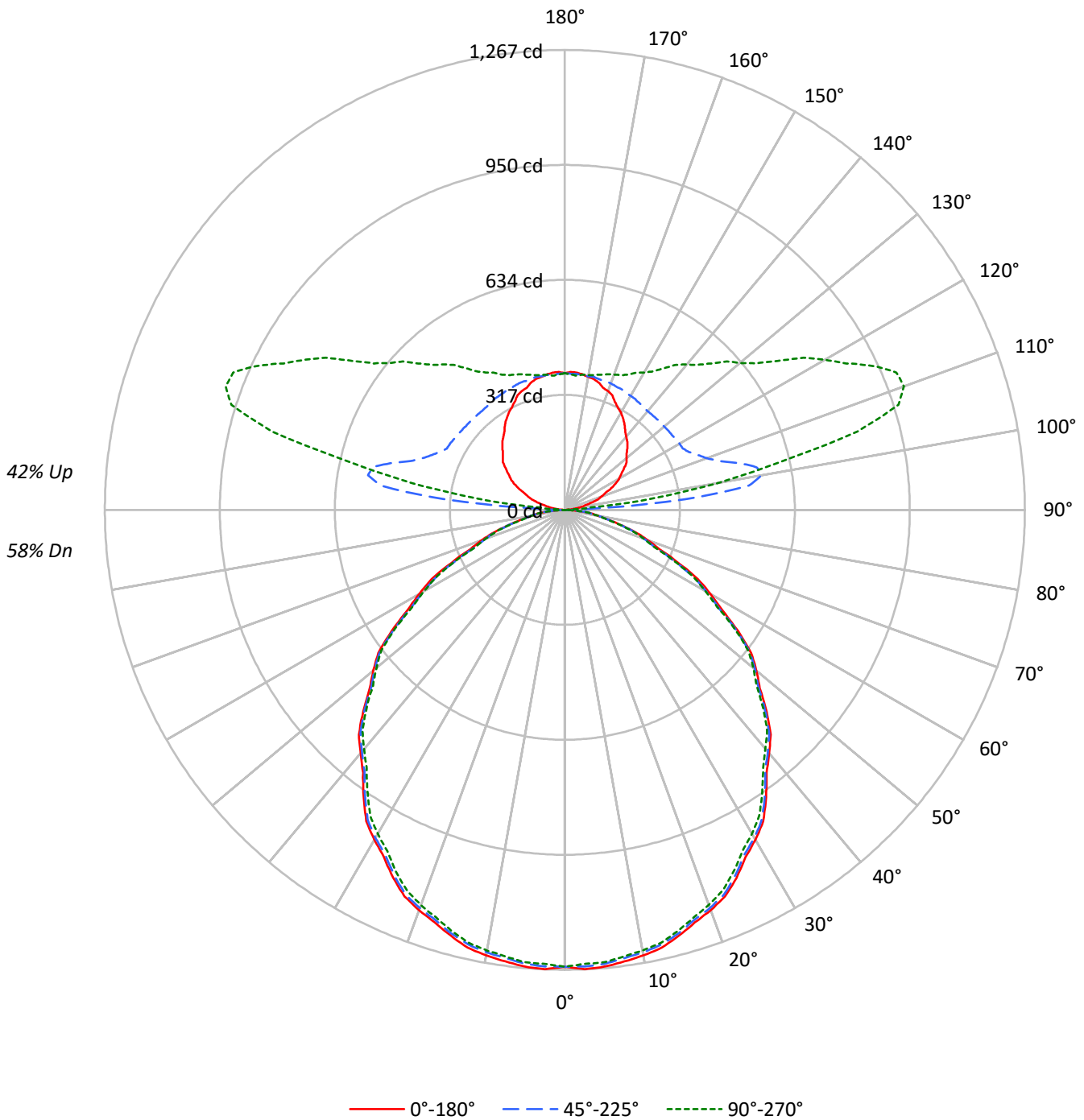
Lumens per Lamp: N/A
Luminaire Lumens: 5560.0 lumens
Efficiency: N/A
Efficacy: 117.3 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 47.4
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°	11614	11614	11614
5°	11700	11628	11587
10°	11680	11597	11546
15°	11602	11539	11476
20°	11526	11461	11375
25°	11388	11310	11198
30°	11178	11119	10978
35°	10886	10811	10674
40°	10537	10471	10352
45°	10249	10177	10077
50°	9882	9818	9723
55°	9370	9246	9175
60°	8531	8285	8245
65°	7514	7202	7178
70°	6488	6221	6221
75°	5586	5508	5429
80°	4925	4984	4867
85°	3853	4203	4203



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.0	2.1
10°-20°	339.9	6.1
20°-30°	509.1	9.2
30°-40°	597.2	10.7
40°-50°	599.0	10.8
50°-60°	511.0	9.2
60°-70°	333.3	6.0
70°-80°	167.2	3.0
80°-90°	46.3	0.8
90°-100°	171.5	3.1
100°-110°	488.0	8.8
110°-120°	467.6	8.4
120°-130°	370.1	6.7
130°-140°	297.0	5.3
140°-150°	232.5	4.2
150°-160°	170.1	3.1
160°-170°	105.4	1.9
170°-180°	35.8	0.6
0°-30°	968.0	17.4
0°-40°	1565.2	28.2
0°-60°	2675.2	48.1
0°-90°	3222.0	57.9
90°-120°	1127.1	20.3
90°-150°	2026.7	36.5
90°-180°	2338.0	42.1
0°-180°	5560.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1259	1259	1259	1259	1259	
5°	1263	1251	1256	1251	1251	120
15°	1215	1203	1208	1204	1202	343
25°	1119	1106	1111	1101	1100	514
35°	966	957	960	949	948	604
45°	786	780	780	772	772	605
55°	582	580	575	572	570	518
65°	344	338	330	328	329	344
75°	157	157	154	153	152	170
85°	36	40	40	40	40	43
90°	0	0	0	0	0	2
95°	19	74	332	115	71	21
105°	76	115	497	878	835	80
115°	141	170	377	799	938	139
125°	199	221	360	597	714	178
135°	243	264	356	504	570	188
145°	287	302	358	437	476	179
155°	328	335	367	395	411	151
165°	362	364	371	379	385	102
175°	379	377	376	374	371	36
180°	376	376	376	376	376	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1258.8	1258.8	1258.8	1258.8	1258.8
2.5°	1266.8	1256.4	1258.8	1257.0	1251.8
5°	1263.3	1251.4	1255.5	1251.1	1251.1
7.5°	1254.7	1241.7	1245.8	1241.4	1241.2
10°	1246.7	1233.8	1237.9	1233.4	1232.4
12.5°	1235.2	1222.3	1227.3	1222.0	1221.8
15°	1214.7	1202.9	1208.1	1203.6	1201.5
17.5°	1191.5	1178.6	1184.9	1178.7	1177.9
20°	1173.9	1161.0	1167.3	1158.5	1158.5
22.5°	1152.7	1139.8	1147.0	1135.5	1135.5
25°	1118.7	1105.8	1111.0	1101.1	1100.0
27.5°	1078.4	1065.6	1071.1	1059.8	1059.6
30°	1049.2	1037.4	1043.7	1031.5	1030.5
32.5°	1017.5	1006.4	1011.1	998.9	997.8
35°	966.5	956.8	959.9	948.8	947.7
37.5°	912.9	902.9	906.5	897.0	896.5
40°	874.9	868.4	869.4	861.6	859.5
42.5°	839.6	832.3	833.2	825.5	825.0
45°	785.5	780.1	780.0	772.3	772.3
47.5°	728.2	724.1	722.9	716.5	716.3
50°	688.5	685.2	684.0	678.5	677.4
52.5°	647.0	645.5	641.7	637.0	636.8
55°	582.5	580.4	574.8	571.5	570.4
57.5°	512.6	508.3	502.0	497.2	498.0
60°	462.3	458.0	449.0	446.8	446.8
62.5°	413.7	408.6	399.6	396.6	398.3
65°	344.2	337.8	329.9	327.7	328.8
67.5°	281.1	275.3	266.8	266.8	265.9
70°	240.5	237.3	230.6	230.6	230.6
72.5°	204.3	202.8	197.9	197.9	197.0
75°	156.7	156.7	154.5	153.3	152.3
77.5°	117.4	117.8	116.7	115.6	113.6
80°	92.7	94.8	93.8	92.7	91.6
82.5°	69.7	71.9	71.7	69.7	69.5
85°	36.4	39.6	39.7	39.7	39.7
87.5°	9.7	13.2	14.1	14.1	15.0
90°	0.0	0.0	0.0	0.0	0.0
92.5°	5.7	30.4	70.4	20.5	15.5
95°	18.6	73.9	332.0	114.9	70.8
97.5°	34.2	86.5	511.3	365.9	250.7
100°	45.1	94.1	550.3	557.4	429.3
102.5°	57.1	102.2	541.7	713.5	601.6
105°	75.8	115.0	497.3	878.4	835.1
107.5°	94.9	130.0	445.5	925.0	963.6
110°	108.1	140.9	415.7	907.2	993.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	120.6	151.8	395.7	865.1	988.8
115°	141.0	170.4	377.1	798.9	938.1
117.5°	158.9	186.4	366.1	726.5	874.0
120°	173.2	196.3	364.9	685.1	826.5
122.5°	184.6	207.7	362.1	648.9	780.1
125°	198.9	220.6	359.9	597.3	714.1
127.5°	214.5	234.8	358.8	566.5	662.8
130°	222.5	242.8	357.1	545.0	629.0
132.5°	231.1	250.9	357.1	528.3	605.5
135°	243.3	263.6	355.6	504.5	570.3
137.5°	254.7	274.5	355.5	484.4	541.3
140°	263.3	283.6	354.9	467.8	522.4
142.5°	273.1	290.0	356.6	454.5	503.5
145°	286.9	301.6	358.5	436.7	475.8
147.5°	298.8	313.1	361.6	418.7	452.5
150°	309.1	318.9	362.8	412.7	436.5
152.5°	317.1	327.5	363.9	404.7	426.8
155°	327.7	335.4	367.1	394.6	410.7
157.5°	340.9	345.5	367.8	390.1	401.6
160°	347.8	351.3	370.7	386.6	396.4
162.5°	351.8	355.8	371.2	383.7	391.3
165°	362.1	363.5	371.4	379.4	385.0
167.5°	369.1	367.8	374.7	378.3	380.5
170°	371.4	370.7	373.5	374.3	377.1
172.5°	376.5	374.2	375.2	373.1	375.4
175°	379.2	377.1	375.7	373.5	370.7
177.5°	380.4	377.0	375.2	373.0	373.5
180°	376.4	376.4	376.4	376.4	376.4

(END OF REPORT)