

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: P563758

Luminaire Tested: **SQ4-PP3-150U-050D-835-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563758
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-25, G2-2103-172-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PP3-150U-050D-835-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

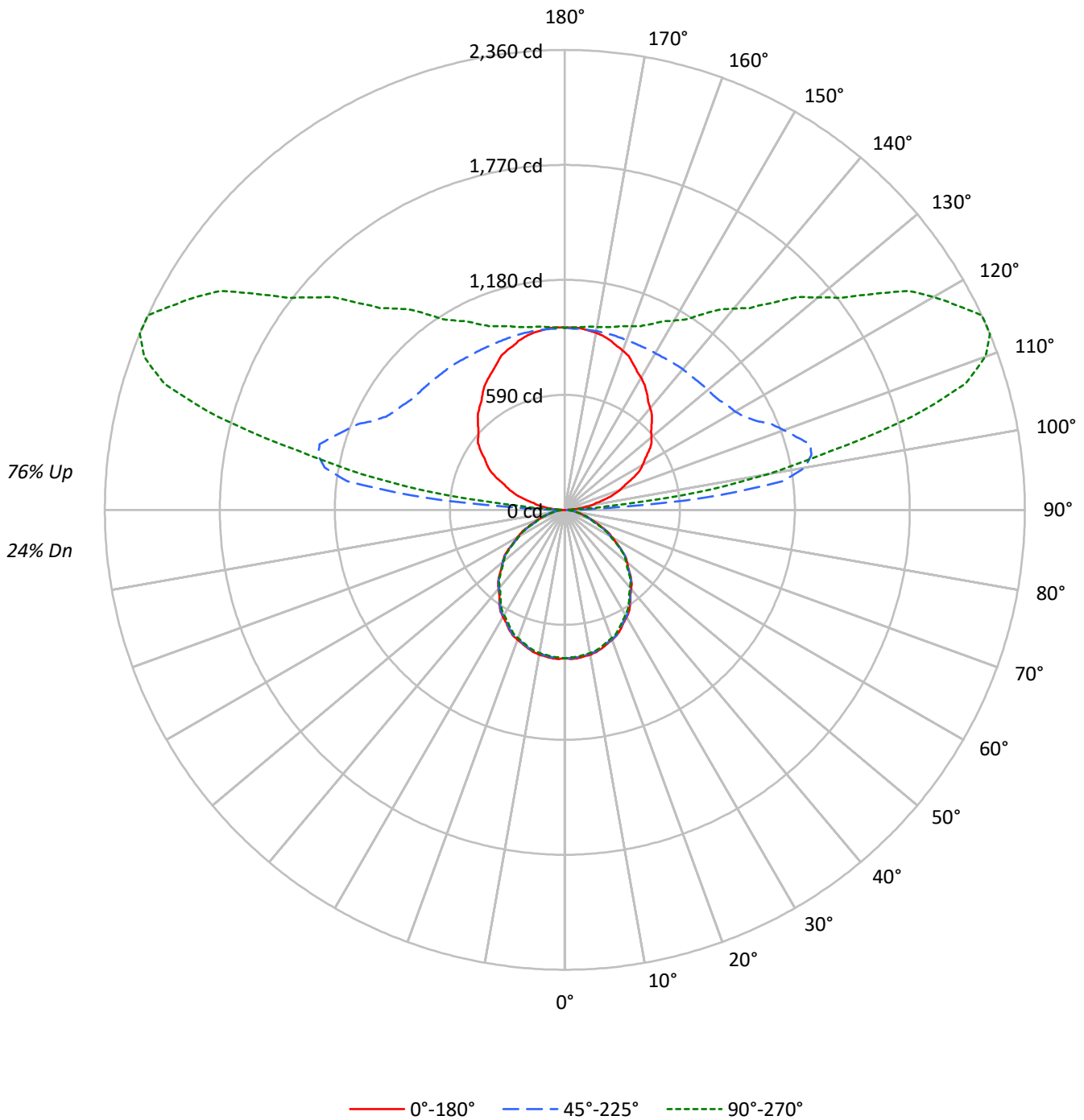
Lumens per Lamp: N/A
Luminaire Lumens: 7975.3 lumens
Efficiency: N/A
Efficacy: 143.2 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 55.7
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	101	101	101	101	90	90	90	90	69	69	69	50	50	50	33	33	33	24
1	92	88	84	81	82	78	75	73	61	59	57	44	43	42	29	28	28	21
2	84	77	71	66	74	69	64	60	53	50	47	39	37	35	26	24	23	18
3	77	68	61	55	68	60	55	50	47	43	40	34	32	30	23	21	20	15
4	70	60	52	46	62	53	47	42	42	37	34	31	28	25	20	19	17	13
5	64	53	45	40	57	48	41	36	37	32	29	27	24	22	18	16	15	11
6	59	47	40	34	52	43	36	31	33	29	25	25	21	19	17	15	13	10
7	54	43	35	30	48	38	32	27	30	25	22	22	19	17	15	13	12	9
8	50	39	31	26	45	35	28	24	27	23	19	20	17	15	14	12	10	8
9	47	35	28	23	42	32	25	21	25	20	17	19	15	13	13	11	9	7
10	43	32	25	20	39	29	23	19	23	18	15	17	14	12	12	10	8	6

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7027	7027	7027
5°	7079	7035	7011
10°	7067	7016	6985
15°	7020	6981	6943
20°	6973	6934	6882
25°	6891	6843	6775
30°	6763	6728	6642
35°	6586	6540	6458
40°	6375	6335	6263
45°	6202	6157	6097
50°	5978	5941	5882
55°	5668	5594	5551
60°	5161	5014	4988
65°	4547	4357	4342
70°	3925	3763	3763
75°	3379	3333	3283
80°	2981	3013	2943
85°	2329	2541	2541



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.0	0.9
10°-20°	205.6	2.6
20°-30°	308.0	3.9
30°-40°	361.3	4.5
40°-50°	362.4	4.5
50°-60°	309.2	3.9
60°-70°	201.6	2.5
70°-80°	101.2	1.3
80°-90°	30.0	0.4
90°-100°	434.2	5.4
100°-110°	1174.0	14.7
110°-120°	1234.3	15.5
120°-130°	1002.6	12.6
130°-140°	786.5	9.9
140°-150°	603.6	7.6
150°-160°	434.1	5.4
160°-170°	265.2	3.3
170°-180°	89.4	1.1
0°-30°	585.7	7.3
0°-40°	947.0	11.9
0°-60°	1618.6	20.3
0°-90°	1951.3	24.5
90°-120°	2842.6	35.6
90°-150°	5235.3	65.6
90°-180°	6024.0	75.5
0°-180°	7975.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	762	762	762	762	762	
5°	764	757	760	757	757	73
15°	735	728	731	728	727	207
25°	677	669	672	666	666	311
35°	585	579	581	574	573	365
45°	475	472	472	467	467	366
55°	352	351	348	346	345	313
65°	208	204	200	198	199	208
75°	95	95	94	93	92	103
85°	22	24	24	24	24	26
90°	2	6	13	14	13	5
95°	67	236	722	374	222	71
105°	218	337	1302	1921	1842	230
115°	384	470	1080	2091	2360	379
125°	526	603	974	1643	1930	469
135°	631	705	947	1326	1502	487
145°	733	788	934	1135	1222	459
155°	828	860	926	1019	1052	382
165°	901	910	930	967	972	254
175°	935	934	931	943	941	89
180°	934	934	934	934	934	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	761.6	761.6	761.6	761.6	761.6
2.5°	766.4	760.2	761.6	760.5	757.4
5°	764.3	757.1	759.6	757.0	757.0
7.5°	759.1	751.3	753.7	751.1	750.9
10°	754.3	746.5	748.9	746.3	745.6
12.5°	747.3	739.5	742.5	739.3	739.2
15°	734.9	727.7	730.9	728.2	726.9
17.5°	720.9	713.1	716.9	713.2	712.6
20°	710.2	702.4	706.2	700.9	700.9
22.5°	697.4	689.6	693.9	687.0	687.0
25°	676.9	669.0	672.2	666.2	665.5
27.5°	652.4	644.7	648.0	641.2	641.1
30°	634.8	627.6	631.5	624.1	623.5
32.5°	615.6	608.9	611.7	604.3	603.7
35°	584.7	578.9	580.7	574.0	573.4
37.5°	552.3	546.3	548.4	542.7	542.4
40°	529.3	525.4	526.0	521.3	520.0
42.5°	508.0	503.5	504.1	499.4	499.2
45°	475.3	472.0	471.9	467.3	467.3
47.5°	440.6	438.1	437.4	433.5	433.3
50°	416.5	414.6	413.9	410.5	409.8
52.5°	391.4	390.5	388.2	385.4	385.3
55°	352.4	351.1	347.8	345.8	345.1
57.5°	310.1	307.5	303.7	300.8	301.3
60°	279.7	277.1	271.7	270.3	270.3
62.5°	250.3	247.2	241.8	239.9	241.0
65°	208.3	204.3	199.6	198.3	198.9
67.5°	170.1	166.6	161.4	161.4	160.9
70°	145.5	143.6	139.5	139.5	139.5
72.5°	123.6	122.7	119.8	119.7	119.2
75°	94.8	94.8	93.5	92.8	92.1
77.5°	71.0	71.3	70.6	69.9	68.8
80°	56.1	57.4	56.7	56.1	55.4
82.5°	42.2	43.5	43.4	42.2	42.1
85°	22.0	24.0	24.0	24.0	24.0
87.5°	6.3	9.2	11.2	11.4	11.7
90°	2.0	5.9	13.1	14.1	13.1
92.5°	28.6	104.1	205.4	89.2	64.6
95°	67.4	236.5	722.1	373.7	222.3
97.5°	108.2	271.3	1125.6	931.5	684.1
100°	138.8	285.3	1251.1	1304.8	1055.0
102.5°	167.0	304.8	1295.4	1587.8	1401.0
105°	218.2	337.2	1302.4	1921.2	1842.5
107.5°	265.7	374.3	1245.5	2129.1	2155.3
110°	302.7	401.1	1194.8	2185.0	2296.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	335.7	427.8	1148.1	2173.8	2360.5
115°	384.2	469.7	1080.2	2091.0	2360.5
117.5°	431.7	511.9	1035.3	1964.5	2269.9
120°	460.6	539.3	1008.8	1873.7	2185.5
122.5°	488.0	565.1	992.7	1776.4	2090.5
125°	526.0	602.7	973.6	1642.9	1930.0
127.5°	561.0	636.3	962.3	1533.9	1786.4
130°	580.3	658.0	957.5	1466.5	1694.7
132.5°	600.4	677.3	952.6	1405.8	1615.8
135°	630.6	705.3	947.4	1326.5	1501.6
137.5°	661.0	731.6	943.0	1262.2	1404.8
140°	681.9	747.8	941.4	1220.8	1347.7
142.5°	702.0	764.0	938.1	1183.5	1294.6
145°	733.2	788.2	934.3	1135.4	1222.0
147.5°	761.5	810.3	929.9	1091.9	1158.4
150°	782.5	825.7	928.3	1068.3	1121.4
152.5°	801.8	839.5	927.5	1046.4	1090.0
155°	827.7	860.2	926.3	1018.6	1052.0
157.5°	854.7	877.3	926.5	999.2	1021.2
160°	870.0	888.6	927.3	987.0	1002.7
162.5°	882.0	897.6	928.1	977.2	989.0
165°	901.1	910.0	930.3	966.6	971.5
167.5°	914.2	920.3	930.5	957.5	959.9
170°	922.3	925.2	931.3	953.4	953.4
172.5°	928.7	929.3	931.3	948.6	947.8
175°	935.3	934.3	931.3	943.3	941.4
177.5°	937.5	935.2	931.1	939.1	936.7
180°	934.3	934.3	934.3	934.3	934.3

(END OF REPORT)