

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: P565122

Luminaire Tested: **SQ4-PW1-150U-075D-830-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P565122
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-25, G2-2106-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PW1-150U-075D-830-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

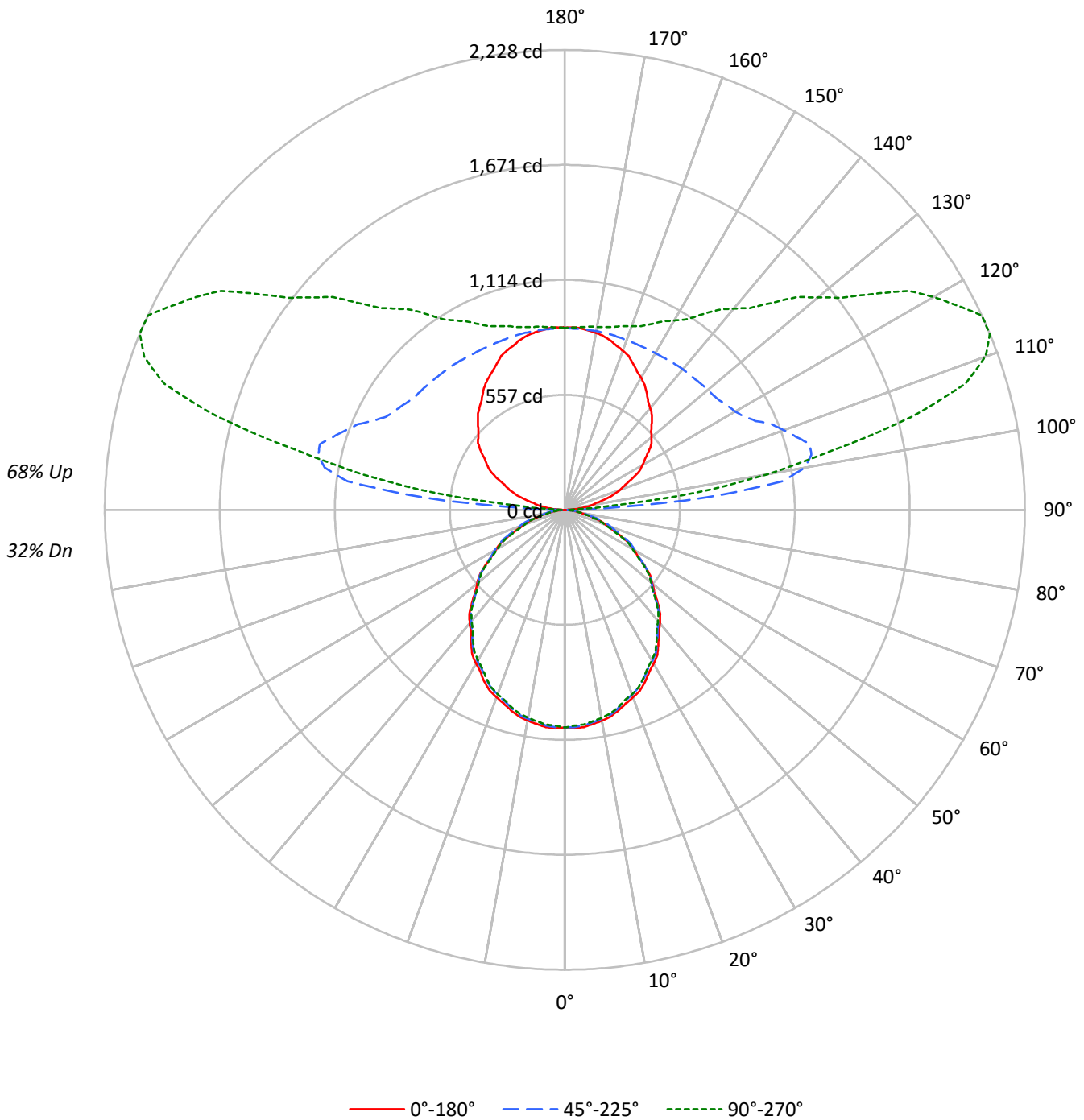
Lumens per Lamp: N/A
Luminaire Lumens: 8370.0 lumens
Efficiency: N/A
Efficacy: 131.8 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 63.5
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	103	103	103	103	93	93	93	93	73	73	73	56	56	56	40	40	40	32
1	94	90	86	83	84	81	78	75	64	62	60	49	48	46	35	34	34	27
2	85	78	72	67	77	71	66	61	56	53	50	43	41	39	31	30	28	23
3	78	69	62	56	70	62	56	51	50	45	42	38	35	33	27	26	24	19
4	71	61	53	47	64	55	48	43	44	39	36	34	31	28	25	22	21	17
5	65	54	46	40	59	49	42	37	39	34	31	30	27	24	22	20	18	14
6	60	48	41	35	54	44	37	32	35	30	27	27	24	21	20	18	16	13
7	55	44	36	30	50	40	33	28	32	27	23	25	21	19	18	16	14	11
8	51	39	32	27	46	36	29	25	29	24	21	23	19	17	17	14	13	10
9	48	36	29	24	43	33	26	22	27	22	18	21	17	15	15	13	11	9
10	44	33	26	21	40	30	24	20	24	20	16	19	16	13	14	12	10	8

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9726	9726	9726
5°	9789	9712	9669
10°	9711	9633	9581
15°	9608	9502	9467
20°	9493	9348	9329
25°	9362	9190	9163
30°	9163	9025	8965
35°	8903	8777	8726
40°	8625	8491	8457
45°	8289	8181	8144
50°	7946	7879	7825
55°	7575	7575	7456
60°	7113	7250	6993
65°	6510	6833	6346
70°	5738	6288	5587
75°	4902	5629	4770
80°	3799	4739	3852
85°	2456	3642	3250



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.3	1.2
10°-20°	280.3	3.3
20°-30°	415.7	5.0
30°-40°	486.5	5.8
40°-50°	484.3	5.8
50°-60°	418.2	5.0
60°-70°	301.0	3.6
70°-80°	157.9	1.9
80°-90°	41.0	0.5
90°-100°	409.8	4.9
100°-110°	1108.2	13.2
110°-120°	1165.1	13.9
120°-130°	946.4	11.3
130°-140°	742.3	8.9
140°-150°	569.7	6.8
150°-160°	409.7	4.9
160°-170°	250.3	3.0
170°-180°	84.4	1.0
0°-30°	795.3	9.5
0°-40°	1281.7	15.3
0°-60°	2184.2	26.1
0°-90°	2684.1	32.1
90°-120°	2683.1	32.1
90°-150°	4941.5	59.0
90°-180°	5686.0	67.9
0°-180°	8370.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1054	1054	1054	1054	1054	
5°	1057	1045	1049	1046	1044	100
15°	1006	993	995	993	991	284
25°	920	904	903	897	900	423
35°	790	780	779	772	775	494
45°	635	630	627	625	624	490
55°	471	470	471	464	464	420
65°	298	307	313	301	291	295
75°	138	150	158	147	134	147
85°	23	30	34	32	31	31
90°	2	6	12	13	12	5
95°	64	223	682	353	210	67
105°	206	318	1229	1813	1739	217
115°	363	443	1020	1974	2228	358
125°	496	569	919	1551	1822	443
135°	595	666	894	1252	1417	460
145°	692	744	882	1072	1153	433
155°	781	812	874	961	993	360
165°	851	859	878	912	917	240
175°	883	882	879	890	888	84
180°	882	882	882	882	882	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1054.2	1054.2	1054.2	1054.2	1054.2
2.5°	1060.2	1051.5	1054.2	1051.9	1046.8
5°	1057.0	1045.2	1048.7	1045.8	1044.0
7.5°	1046.3	1035.4	1037.9	1034.9	1033.8
10°	1036.6	1025.7	1028.2	1024.5	1022.7
12.5°	1025.4	1013.8	1016.3	1012.6	1011.5
15°	1005.9	993.2	994.8	992.9	991.1
17.5°	983.3	970.4	970.6	967.7	967.3
20°	966.9	953.3	952.1	948.4	950.2
22.5°	949.1	934.7	933.5	928.3	930.9
25°	919.6	904.1	902.8	897.3	900.1
27.5°	885.4	870.1	870.1	862.4	865.3
30°	860.1	845.6	847.1	837.9	841.5
32.5°	833.4	820.3	821.1	811.9	815.5
35°	790.5	779.6	779.3	771.9	774.7
37.5°	746.6	737.0	735.5	731.2	731.9
40°	716.1	708.0	705.0	702.2	702.2
42.5°	684.2	676.7	673.8	671.7	671.0
45°	635.3	629.9	627.0	625.1	624.2
47.5°	587.0	581.9	579.4	578.1	577.2
50°	553.6	550.0	548.9	546.1	545.2
52.5°	520.2	518.0	517.0	513.4	512.5
55°	470.9	470.0	470.9	464.4	463.5
57.5°	419.7	421.1	424.1	415.3	413.2
60°	385.5	389.1	392.9	382.6	379.0
62.5°	350.5	356.4	361.7	349.9	344.8
65°	298.2	307.2	313.0	300.7	290.7
67.5°	247.6	258.9	265.8	252.6	241.3
70°	212.7	225.4	233.1	219.8	207.1
72.5°	182.2	196.4	202.7	190.1	177.4
75°	137.5	150.2	157.9	147.4	133.8
77.5°	97.5	109.5	115.9	106.7	95.5
80°	71.5	84.2	89.2	81.5	72.5
82.5°	50.7	61.3	64.6	60.0	53.9
85°	23.2	30.5	34.4	32.5	30.7
87.5°	6.3	12.2	16.6	16.8	17.3
90°	1.9	5.6	12.3	13.3	12.3
92.5°	27.0	98.2	193.8	84.2	60.9
95°	63.6	223.3	681.6	352.7	209.8
97.5°	102.1	256.0	1062.5	879.3	645.7
100°	131.0	269.3	1180.9	1231.6	995.8
102.5°	157.6	287.7	1222.7	1498.7	1322.4
105°	206.0	318.3	1229.3	1813.4	1739.1
107.5°	250.8	353.3	1175.6	2009.7	2034.4
110°	285.7	378.6	1127.8	2062.4	2167.3



TEST NUMBER: P565122

CATALOG NUMBER: SQ4-PW1-150U-075D-830-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	316.9	403.8	1083.7	2051.8	2228.0
115°	362.6	443.4	1019.6	1973.7	2228.0
117.5°	407.4	483.2	977.2	1854.3	2142.6
120°	434.8	509.0	952.2	1768.6	2062.8
122.5°	460.6	533.4	937.0	1676.8	1973.2
125°	496.5	568.9	918.9	1550.7	1821.7
127.5°	529.5	600.6	908.3	1447.8	1686.2
130°	547.7	621.1	903.7	1384.2	1599.6
132.5°	566.7	639.3	899.2	1326.9	1525.2
135°	595.2	665.8	894.2	1252.1	1417.3
137.5°	623.9	690.5	890.1	1191.4	1326.0
140°	643.6	705.8	888.5	1152.3	1272.1
142.5°	662.6	721.1	885.5	1117.1	1221.9
145°	692.0	744.0	881.9	1071.7	1153.4
147.5°	718.8	764.9	877.7	1030.7	1093.4
150°	738.6	779.4	876.2	1008.4	1058.5
152.5°	756.8	792.4	875.4	987.6	1028.9
155°	781.3	811.9	874.3	961.4	993.0
157.5°	806.7	828.1	874.5	943.1	963.9
160°	821.1	838.8	875.3	931.6	946.5
162.5°	832.5	847.2	876.0	922.4	933.5
165°	850.6	858.9	878.1	912.4	917.0
167.5°	862.9	868.7	878.3	903.8	906.0
170°	870.5	873.3	879.1	899.9	899.9
172.5°	876.6	877.1	879.1	895.4	894.6
175°	882.9	881.9	879.1	890.4	888.5
177.5°	884.9	882.7	878.9	886.4	884.2
180°	881.9	881.9	881.9	881.9	881.9

(END OF REPORT)