

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: P565098

Luminaire Tested: **SQ4-PW1-150U-050D-830-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P565098
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-050D-830-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

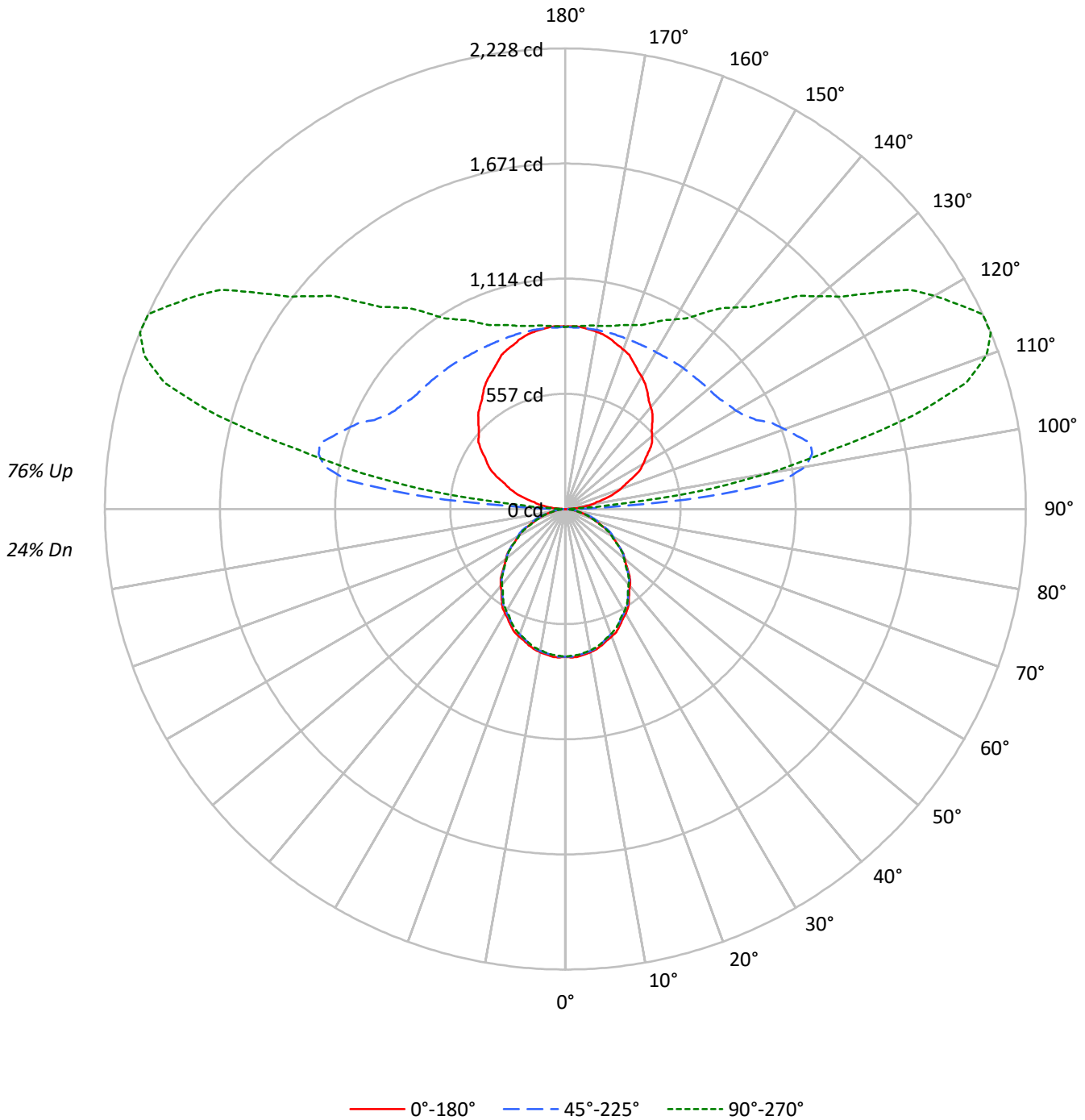
Lumens per Lamp: N/A
Luminaire Lumens: 7507.7 lumens
Efficiency: N/A
Efficacy: 134.8 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 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	32	32	32	24
1	92	88	84	81	82	78	75	72	60	58	57	44	43	42	29	28	27	21
2	84	77	71	66	74	68	64	59	53	50	47	39	37	35	25	24	23	17
3	76	67	60	55	68	60	54	50	47	43	39	34	32	29	22	21	20	15
4	70	60	52	46	62	53	47	42	41	37	33	30	27	25	20	18	17	13
5	64	53	45	39	57	47	41	36	37	32	29	27	24	22	18	16	15	11
6	59	47	40	34	52	42	36	31	33	28	25	24	21	19	16	14	13	10
7	54	43	35	30	48	38	32	27	30	25	22	22	19	17	15	13	11	9
8	50	38	31	26	45	35	28	24	27	22	19	20	17	15	14	12	10	8
9	47	35	28	23	41	31	25	21	25	20	17	18	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°	6600	6600	6600
5°	6642	6590	6561
10°	6589	6535	6501
15°	6519	6446	6423
20°	6441	6343	6330
25°	6351	6236	6217
30°	6217	6123	6083
35°	6040	5955	5920
40°	5852	5761	5738
45°	5625	5551	5526
50°	5391	5347	5309
55°	5139	5139	5059
60°	4825	4919	4744
65°	4416	4637	4307
70°	3893	4268	3790
75°	3326	3818	3233
80°	2577	3214	2614
85°	1673	2467	2202



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.4	0.9
10°-20°	190.2	2.5
20°-30°	282.1	3.8
30°-40°	330.0	4.4
40°-50°	328.6	4.4
50°-60°	283.7	3.8
60°-70°	204.3	2.7
70°-80°	107.1	1.4
80°-90°	28.4	0.4
90°-100°	409.8	5.5
100°-110°	1108.2	14.8
110°-120°	1165.1	15.5
120°-130°	946.4	12.6
130°-140°	742.3	9.9
140°-150°	569.7	7.6
150°-160°	409.7	5.5
160°-170°	250.3	3.3
170°-180°	84.4	1.1
0°-30°	539.6	7.2
0°-40°	869.6	11.6
0°-60°	1482.0	19.7
0°-90°	1821.7	24.3
90°-120°	2683.1	35.7
90°-150°	4941.5	65.8
90°-180°	5686.0	75.7
0°-180°	7507.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	715	715	715	715	715	
5°	717	709	712	710	708	68
15°	682	674	675	674	672	192
25°	624	613	613	609	611	287
35°	536	529	529	524	526	335
45°	431	427	425	424	424	333
55°	320	319	320	315	314	285
65°	202	208	212	204	197	200
75°	93	102	107	100	91	100
85°	16	21	23	22	21	21
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°	715.3	715.3	715.3	715.3	715.3
2.5°	719.3	713.4	715.3	713.7	710.2
5°	717.2	709.2	711.5	709.6	708.4
7.5°	709.9	702.5	704.2	702.2	701.4
10°	703.3	695.9	697.6	695.1	693.9
12.5°	695.7	687.9	689.6	687.0	686.3
15°	682.5	673.9	674.9	673.7	672.4
17.5°	667.1	658.4	658.6	656.5	656.3
20°	656.0	646.8	646.0	643.5	644.7
22.5°	643.9	634.2	633.4	629.9	631.6
25°	623.9	613.4	612.6	608.8	610.7
27.5°	600.7	590.4	590.4	585.1	587.1
30°	583.6	573.7	574.7	568.5	571.0
32.5°	565.4	556.5	557.1	550.9	553.3
35°	536.3	528.9	528.7	523.7	525.6
37.5°	506.6	500.0	499.0	496.1	496.6
40°	485.9	480.3	478.3	476.4	476.4
42.5°	464.2	459.2	457.2	455.8	455.3
45°	431.1	427.4	425.4	424.1	423.5
47.5°	398.3	394.8	393.1	392.2	391.6
50°	375.6	373.1	372.5	370.5	369.9
52.5°	352.9	351.4	350.8	348.4	347.7
55°	319.5	318.9	319.5	315.1	314.5
57.5°	284.7	285.7	287.8	281.8	280.3
60°	261.5	264.0	266.6	259.6	257.1
62.5°	237.8	241.8	245.4	237.4	233.9
65°	202.3	208.5	212.4	204.0	197.3
67.5°	168.0	175.7	180.4	171.4	163.7
70°	144.3	152.9	158.2	149.2	140.5
72.5°	123.6	133.3	137.5	129.0	120.4
75°	93.3	101.9	107.1	100.0	90.7
77.5°	66.2	74.3	78.6	72.4	64.8
80°	48.5	57.2	60.5	55.3	49.2
82.5°	34.4	41.6	43.9	40.7	36.6
85°	15.8	20.7	23.3	22.0	20.8
87.5°	4.4	8.6	12.0	12.2	12.6
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

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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)