

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: P564366

Luminaire Tested: **SQ4-PR1-125U-075D-930-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564366
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-24, G2-2106-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PR1-125U-075D-930-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

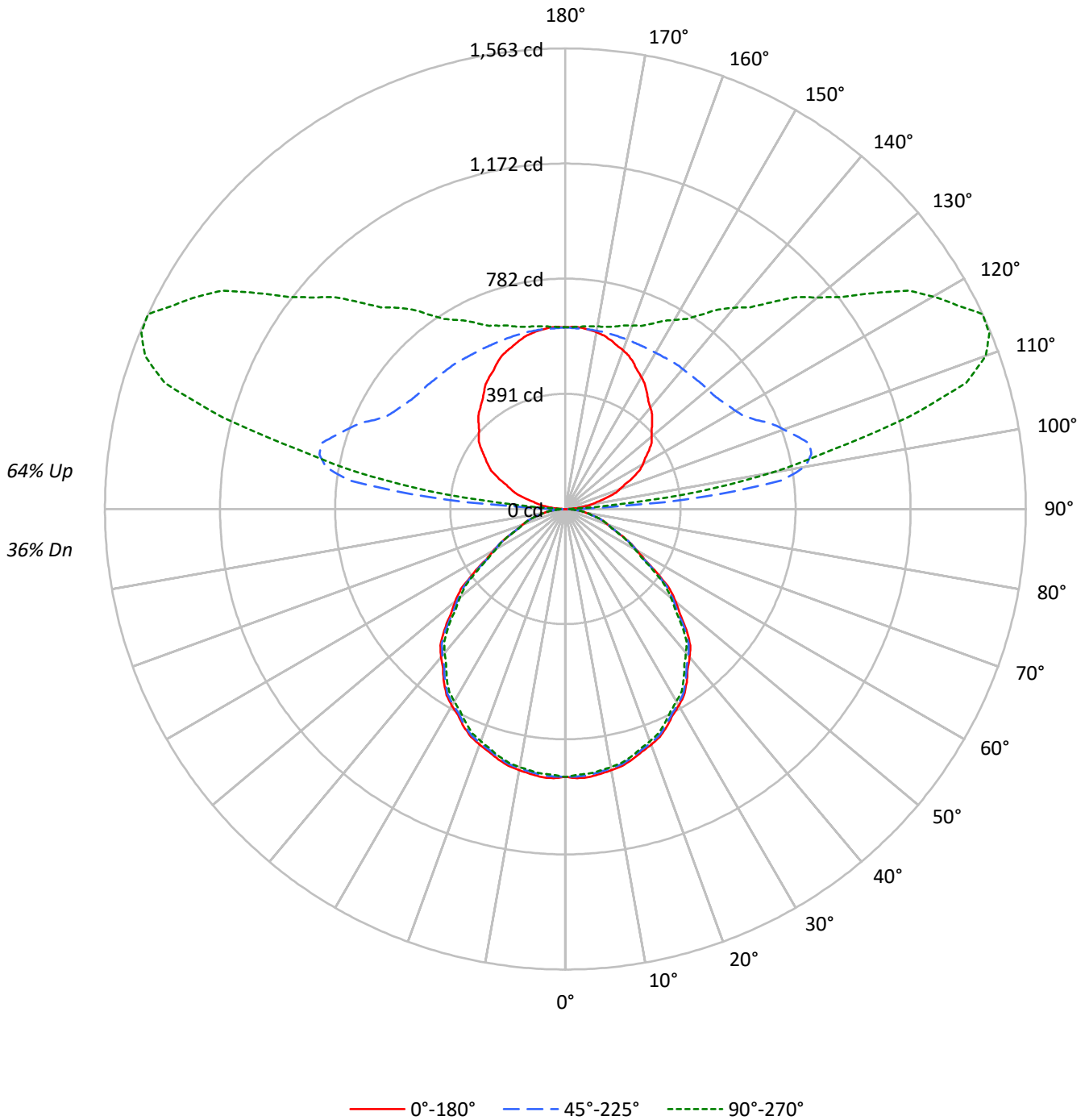
Lumens per Lamp: N/A
Luminaire Lumens: 6252.5 lumens
Efficiency: N/A
Efficacy: 112.3 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

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	104	104	104	104	94	94	94	94	76	76	76	59	59	59	44	44	44	36
1	95	91	87	84	86	82	79	76	67	64	62	52	51	49	39	38	37	31
2	87	79	74	69	78	72	67	63	59	55	52	46	44	42	34	33	32	26
3	79	70	63	57	71	64	58	53	52	48	44	41	38	35	31	29	27	23
4	72	62	54	49	65	56	50	45	46	41	38	36	33	30	28	25	24	19
5	66	55	47	42	60	50	44	38	41	36	32	33	29	26	25	22	21	17
6	61	49	42	36	55	45	38	33	37	32	28	30	26	23	23	20	18	15
7	56	45	37	31	51	41	34	29	34	29	25	27	23	20	21	18	16	13
8	52	40	33	28	47	37	30	26	31	26	22	25	21	18	19	16	14	12
9	49	37	30	25	44	34	27	23	28	23	20	23	19	16	17	15	13	11
10	45	34	27	22	41	31	25	21	26	21	18	21	17	15	16	14	12	10

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8388	8388	8388
5°	8463	8398	8355
10°	8436	8378	8334
15°	8400	8347	8302
20°	8357	8303	8242
25°	8299	8243	8147
30°	8209	8151	8034
35°	8088	8017	7902
40°	7903	7819	7677
45°	7581	7449	7295
50°	7013	6845	6710
55°	6122	5984	5857
60°	5159	5115	5014
65°	4462	4480	4445
70°	4098	4119	4119
75°	3935	3935	3964
80°	3703	3746	3703
85°	2985	3313	3313



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.0	1.4
10°-20°	246.0	3.9
20°-30°	371.0	5.9
30°-40°	442.1	7.1
40°-50°	435.8	7.0
50°-60°	333.1	5.3
60°-70°	206.1	3.3
70°-80°	117.1	1.9
80°-90°	37.1	0.6
90°-100°	288.3	4.6
100°-110°	776.6	12.4
110°-120°	815.0	13.0
120°-130°	661.3	10.6
130°-140°	518.7	8.3
140°-150°	398.2	6.4
150°-160°	286.3	4.6
160°-170°	174.9	2.8
170°-180°	59.0	0.9
0°-30°	703.0	11.2
0°-40°	1145.0	18.3
0°-60°	1914.0	30.6
0°-90°	2274.2	36.4
90°-120°	1879.8	30.1
90°-150°	3458.0	55.3
90°-180°	3978.0	63.6
0°-180°	6252.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	909	909	909	909	909	
5°	914	904	907	904	902	87
15°	879	870	874	871	869	248
25°	815	805	810	801	800	375
35°	718	710	712	702	702	448
45°	581	573	571	561	559	445
55°	381	374	372	366	364	341
65°	204	203	205	204	204	207
75°	110	110	110	111	111	117
85°	28	30	31	31	31	33
90°	2	5	9	10	10	4
95°	44	157	473	242	167	46
105°	144	224	859	1285	1206	151
115°	254	310	715	1382	1563	250
125°	346	398	642	1085	1277	309
135°	417	465	624	876	992	322
145°	482	520	616	749	804	302
155°	547	567	611	672	693	252
165°	594	600	613	638	641	167
175°	617	616	614	622	621	59
180°	616	616	616	616	616	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	909.1	909.1	909.1	909.1	909.1
2.5°	914.8	906.8	909.1	907.2	902.9
5°	913.8	903.9	906.8	903.6	902.1
7.5°	906.8	897.0	899.9	896.8	895.8
10°	900.5	891.3	894.3	891.1	889.6
12.5°	893.6	883.8	887.4	883.6	882.1
15°	879.4	870.2	873.9	870.7	869.2
17.5°	863.7	853.9	857.6	854.0	852.0
20°	851.2	842.0	845.7	840.2	839.5
22.5°	837.4	828.2	831.9	824.6	824.4
25°	815.2	805.2	809.7	801.1	800.3
27.5°	788.7	779.5	783.2	774.4	773.5
30°	770.5	761.4	765.1	755.6	754.1
32.5°	749.9	741.3	744.4	735.0	734.1
35°	718.1	709.7	711.8	702.4	701.6
37.5°	681.9	674.2	675.5	665.1	664.4
40°	656.2	648.6	649.2	638.2	637.4
42.5°	628.0	620.4	619.7	608.7	608.0
45°	581.0	573.4	570.9	560.6	559.1
47.5°	527.5	519.8	515.1	506.8	505.7
50°	488.6	481.0	476.9	469.8	467.5
52.5°	446.7	439.0	435.5	429.1	426.8
55°	380.6	374.4	372.0	365.7	364.1
57.5°	317.8	313.6	312.9	306.8	306.2
60°	279.6	277.3	277.2	271.7	271.7
62.5°	247.0	245.3	246.5	242.9	242.3
65°	204.4	202.9	205.2	203.6	203.6
67.5°	170.7	170.7	172.1	171.5	171.5
70°	151.9	151.9	152.7	152.7	152.7
72.5°	135.0	134.4	136.4	136.4	135.8
75°	110.4	110.4	110.4	111.2	111.2
77.5°	86.0	86.1	86.8	86.6	86.0
80°	69.7	70.5	70.5	69.7	69.7
82.5°	53.4	54.2	54.2	54.0	53.4
85°	28.2	29.7	31.3	31.3	31.3
87.5°	8.5	11.5	14.4	14.6	13.9
90°	1.6	4.6	9.4	10.2	10.2
92.5°	19.2	67.7	133.8	64.4	44.7
95°	44.0	156.8	472.6	241.7	167.2
97.5°	70.2	179.5	741.2	619.2	466.9
100°	90.3	188.5	826.6	864.9	717.5
102.5°	109.7	201.2	854.9	1048.9	927.9
105°	143.7	223.5	858.8	1284.9	1205.8
107.5°	175.7	246.9	822.2	1406.1	1426.6
110°	197.0	264.6	789.0	1443.8	1518.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	219.7	282.3	756.9	1435.5	1557.8
115°	253.6	310.4	715.2	1381.8	1563.0
117.5°	284.5	337.8	682.8	1296.3	1498.0
120°	304.6	356.0	666.5	1234.8	1442.1
122.5°	322.2	373.0	654.6	1172.0	1378.7
125°	346.2	397.6	642.2	1085.3	1277.2
127.5°	369.3	419.9	634.3	1008.9	1180.2
130°	383.1	433.8	631.2	965.1	1115.5
132.5°	396.9	447.0	628.0	926.5	1064.7
135°	416.9	465.2	624.1	875.6	991.5
137.5°	435.8	482.2	622.1	832.4	927.6
140°	449.0	493.6	620.2	805.8	891.8
142.5°	462.9	504.3	618.9	781.0	853.5
145°	482.0	519.6	616.2	748.6	803.9
147.5°	502.7	535.4	613.6	721.3	764.8
150°	516.5	544.9	612.3	704.2	740.3
152.5°	529.1	553.8	611.7	690.2	719.6
155°	547.2	567.1	610.8	671.7	693.2
157.5°	563.0	578.5	610.9	658.7	673.1
160°	573.1	586.1	611.5	651.0	661.8
162.5°	581.9	592.5	612.2	644.7	652.4
165°	593.5	600.4	613.1	637.5	640.6
167.5°	602.9	606.9	613.9	632.0	633.2
170°	609.2	610.7	613.9	628.8	628.8
172.5°	613.0	613.3	614.5	625.7	625.7
175°	617.0	616.3	613.9	622.5	621.0
177.5°	618.8	617.5	614.4	619.4	618.1
180°	616.2	616.2	616.2	616.2	616.2

(END OF REPORT)