

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: P564338

Luminaire Tested: **SQ4-PR1-125U-050D-840-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564338
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-050D-840-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

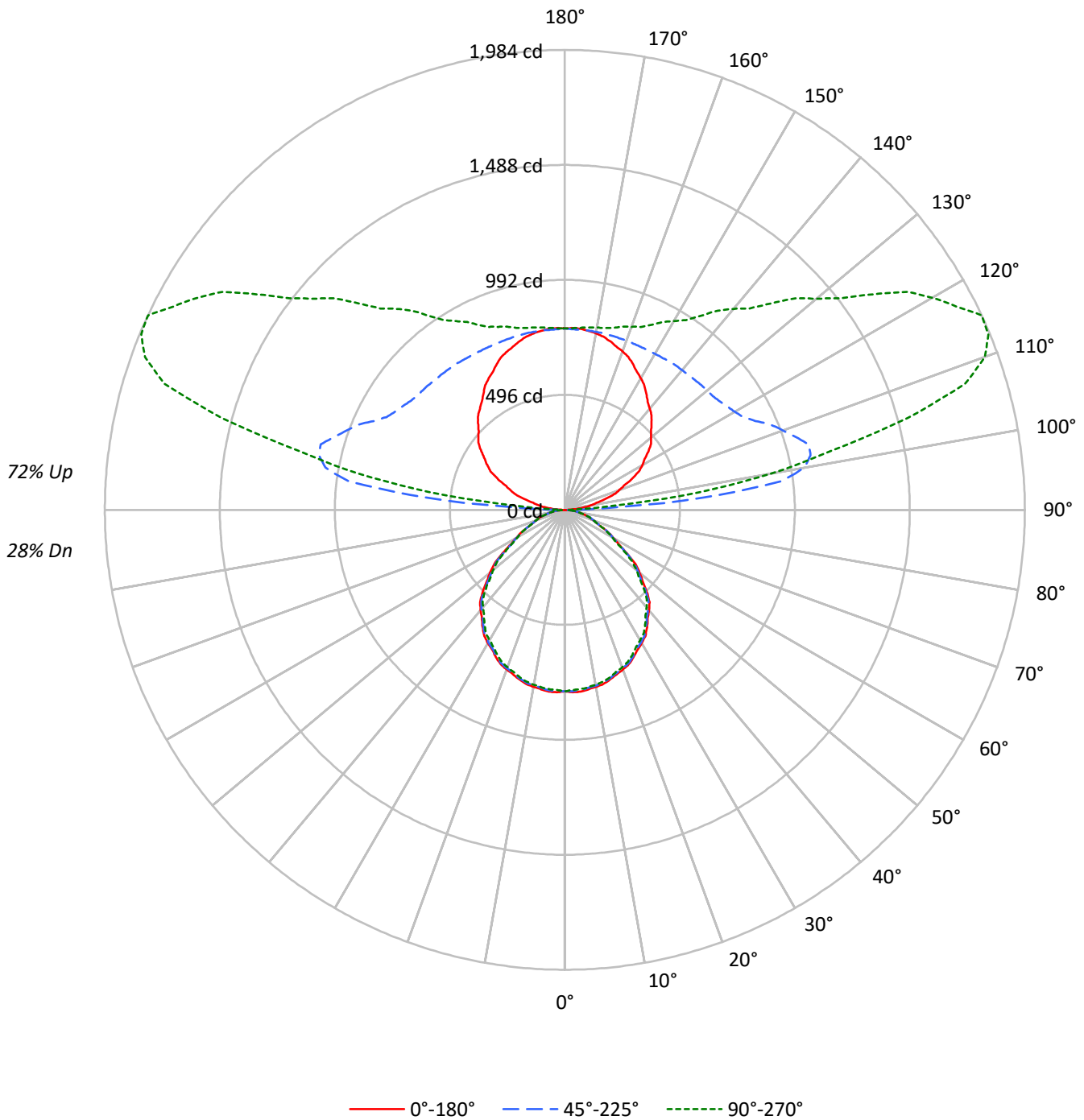
Lumens per Lamp: N/A
Luminaire Lumens: 7008.8 lumens
Efficiency: N/A
Efficacy: 146.3 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 47.9
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	102	102	102	102	91	91	91	91	71	71	71	53	53	53	36	36	36	28
1	93	89	85	82	83	80	77	74	62	60	58	47	45	44	32	31	31	24
2	85	78	72	67	76	70	65	61	55	51	49	41	39	37	28	27	26	20
3	77	68	61	56	69	61	56	51	48	44	41	36	34	31	25	24	22	17
4	71	61	53	47	63	54	48	43	43	39	35	32	29	27	23	21	19	15
5	65	54	46	40	58	48	42	37	38	34	30	29	26	23	20	18	17	13
6	60	48	40	35	53	43	37	32	35	30	26	26	23	20	18	16	15	12
7	55	43	36	30	49	39	33	28	31	26	23	24	20	18	17	15	13	10
8	51	39	32	27	46	35	29	25	28	24	20	22	18	16	15	13	12	9
9	47	36	29	24	42	32	26	22	26	21	18	20	17	14	14	12	11	8
10	44	33	26	21	40	30	23	19	24	19	16	18	15	13	13	11	10	8

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7224	7224	7224
5°	7289	7232	7195
10°	7265	7215	7177
15°	7233	7189	7150
20°	7198	7151	7098
25°	7146	7099	7016
30°	7070	7020	6918
35°	6965	6904	6805
40°	6806	6734	6611
45°	6529	6414	6283
50°	6040	5895	5779
55°	5273	5152	5044
60°	4443	4405	4318
65°	3842	3858	3827
70°	3528	3547	3547
75°	3390	3390	3415
80°	3188	3225	3188
85°	2572	2858	2858



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.0	1.1
10°-20°	211.8	3.0
20°-30°	319.5	4.6
30°-40°	380.7	5.4
40°-50°	375.3	5.4
50°-60°	286.9	4.1
60°-70°	177.5	2.5
70°-80°	100.8	1.4
80°-90°	32.5	0.5
90°-100°	365.9	5.2
100°-110°	985.7	14.1
110°-120°	1034.5	14.8
120°-130°	839.4	12.0
130°-140°	658.3	9.4
140°-150°	505.4	7.2
150°-160°	363.4	5.2
160°-170°	222.0	3.2
170°-180°	74.9	1.1
0°-30°	605.4	8.6
0°-40°	986.1	14.1
0°-60°	1648.3	23.5
0°-90°	1959.2	28.0
90°-120°	2386.1	34.0
90°-150°	4389.3	62.6
90°-180°	5050.0	72.1
0°-180°	7008.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	783	783	783	783	783	
5°	787	778	781	778	777	75
15°	757	749	753	750	749	214
25°	702	694	697	690	689	323
35°	618	611	613	605	604	386
45°	500	494	492	483	482	383
55°	328	322	320	315	314	294
65°	176	175	177	175	175	178
75°	95	95	95	96	96	100
85°	24	26	27	27	27	28
90°	2	6	12	13	13	5
95°	56	199	600	307	212	58
105°	182	284	1090	1631	1530	192
115°	322	394	908	1754	1984	317
125°	439	505	815	1378	1621	392
135°	529	590	792	1111	1258	408
145°	612	660	782	950	1020	384
155°	694	720	775	853	880	320
165°	753	762	778	809	813	212
175°	783	782	779	790	788	74
180°	782	782	782	782	782	



TEST NUMBER: P564338

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	783.0	783.0	783.0	783.0	783.0
2.5°	787.8	781.0	783.0	781.3	777.6
5°	787.0	778.4	780.9	778.2	776.9
7.5°	780.9	772.5	775.0	772.3	771.5
10°	775.5	767.6	770.1	767.4	766.1
12.5°	769.6	761.2	764.2	760.9	759.6
15°	757.3	749.4	752.6	749.9	748.6
17.5°	743.8	735.4	738.6	735.4	733.7
20°	733.1	725.1	728.3	723.6	722.9
22.5°	721.2	713.3	716.5	710.1	710.0
25°	702.0	693.5	697.3	689.9	689.2
27.5°	679.2	671.3	674.5	666.9	666.2
30°	663.6	655.7	658.9	650.7	649.4
32.5°	645.8	638.4	641.1	633.0	632.2
35°	618.4	611.2	613.0	604.9	604.2
37.5°	587.3	580.7	581.7	572.8	572.1
40°	565.1	558.5	559.1	549.6	548.9
42.5°	540.9	534.3	533.7	524.3	523.6
45°	500.4	493.8	491.6	482.8	481.5
47.5°	454.3	447.7	443.6	436.4	435.5
50°	420.8	414.2	410.7	404.6	402.6
52.5°	384.7	378.1	375.1	369.5	367.5
55°	327.8	322.5	320.3	314.9	313.6
57.5°	273.7	270.1	269.5	264.2	263.7
60°	240.8	238.8	238.7	234.0	234.0
62.5°	212.7	211.2	212.3	209.2	208.7
65°	176.0	174.7	176.7	175.3	175.3
67.5°	147.0	147.0	148.2	147.7	147.7
70°	130.8	130.8	131.5	131.5	131.5
72.5°	116.3	115.7	117.5	117.5	116.9
75°	95.1	95.1	95.1	95.8	95.8
77.5°	74.0	74.2	74.7	74.6	74.0
80°	60.0	60.7	60.7	60.0	60.0
82.5°	46.0	46.7	46.7	46.5	46.0
85°	24.3	25.6	27.0	27.0	27.0
87.5°	7.4	10.3	13.2	13.4	12.8
90°	2.0	5.9	12.0	13.0	13.0
92.5°	24.3	85.9	169.8	81.7	56.8
95°	55.8	199.0	599.9	306.8	212.2
97.5°	89.1	227.8	940.8	786.0	592.7
100°	114.6	239.3	1049.3	1097.8	910.8
102.5°	139.3	255.4	1085.1	1331.4	1177.8
105°	182.3	283.7	1090.1	1630.9	1530.5
107.5°	223.0	313.4	1043.7	1784.8	1810.7
110°	250.1	335.8	1001.4	1832.6	1927.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	278.8	358.3	960.8	1822.0	1977.3
115°	321.9	394.0	907.8	1754.0	1983.9
117.5°	361.1	428.7	866.7	1645.4	1901.4
120°	386.6	451.9	846.0	1567.4	1830.5
122.5°	408.9	473.4	830.8	1487.7	1750.0
125°	439.4	504.7	815.1	1377.6	1621.2
127.5°	468.7	533.0	805.1	1280.6	1498.1
130°	486.3	550.6	801.1	1225.0	1416.0
132.5°	503.8	567.3	797.2	1176.0	1351.4
135°	529.1	590.5	792.2	1111.4	1258.5
137.5°	553.2	612.1	789.6	1056.6	1177.4
140°	570.0	626.5	787.2	1022.8	1132.0
142.5°	587.5	640.1	785.6	991.4	1083.3
145°	611.8	659.6	782.2	950.2	1020.4
147.5°	638.1	679.6	778.8	915.6	970.7
150°	655.7	691.7	777.2	893.9	939.6
152.5°	671.6	703.0	776.4	876.1	913.3
155°	694.5	719.9	775.2	852.6	879.9
157.5°	714.7	734.3	775.4	836.0	854.4
160°	727.4	744.0	776.2	826.4	840.0
162.5°	738.6	752.0	777.0	818.3	828.0
165°	753.3	762.1	778.2	809.2	813.1
167.5°	765.3	770.3	779.2	802.2	803.7
170°	773.2	775.2	779.2	798.2	798.2
172.5°	778.0	778.4	780.0	794.2	794.2
175°	783.2	782.2	779.2	790.1	788.2
177.5°	785.4	783.8	779.8	786.2	784.6
180°	782.2	782.2	782.2	782.2	782.2

(END OF REPORT)