

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: P563982

Luminaire Tested: **SQ4-PR1-050U-075D-930-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563982
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-21, 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-PR1-050U-075D-930-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

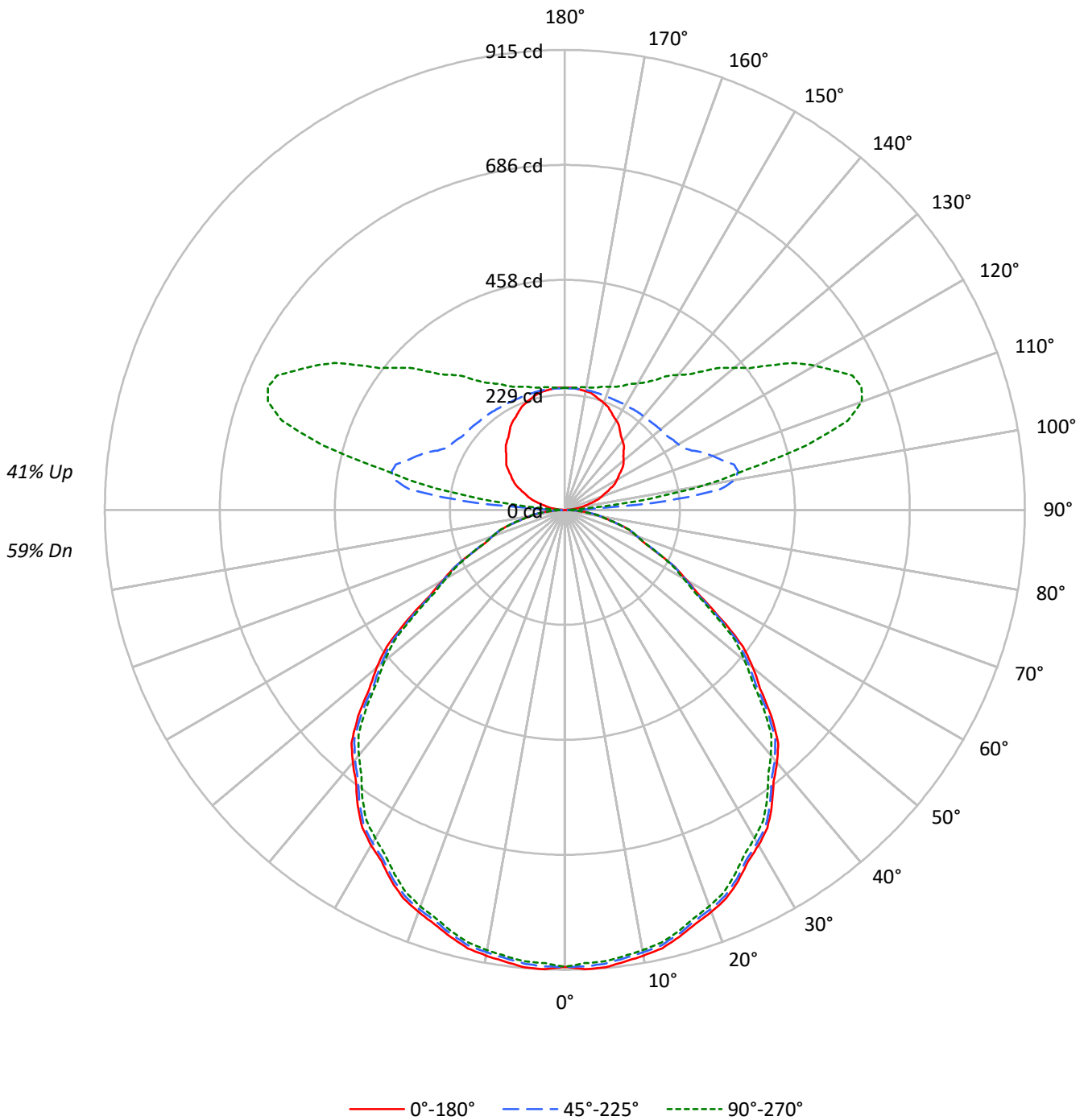
Lumens per Lamp: N/A
Luminaire Lumens: 3858.8 lumens
Efficiency: N/A
Efficacy: 106.3 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 36.3
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	109	109	109	109	102	102	102	102	88	88	88	76	76	76	64	64	64	59
1	100	96	92	89	93	90	86	83	78	76	73	67	65	64	57	56	55	50
2	91	84	78	73	85	79	73	69	69	65	61	59	56	54	51	49	47	43
3	84	74	67	61	78	70	63	58	61	56	52	53	49	46	45	43	40	37
4	77	66	58	52	71	62	55	49	54	49	44	47	43	40	41	38	35	32
5	71	59	51	45	66	55	48	43	49	43	39	43	38	35	37	33	31	28
6	65	53	45	39	61	50	43	37	44	38	34	39	34	30	33	30	27	24
7	60	48	40	34	56	45	38	33	40	34	30	35	30	27	31	27	24	22
8	56	44	36	30	52	41	34	29	37	31	27	32	28	24	28	24	22	19
9	52	40	32	27	49	38	31	26	34	28	24	30	25	22	26	22	20	17
10	49	37	29	25	46	35	28	24	31	25	22	27	23	20	24	20	18	16

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	2.2
10°-20°	246.0	6.4
20°-30°	371.0	9.6
30°-40°	442.1	11.5
40°-50°	435.8	11.3
50°-60°	333.1	8.6
60°-70°	206.1	5.3
70°-80°	117.1	3.0
80°-90°	36.5	0.9
90°-100°	116.5	3.0
100°-110°	316.6	8.2
110°-120°	325.5	8.4
120°-130°	260.2	6.7
130°-140°	204.5	5.3
140°-150°	156.8	4.1
150°-160°	112.8	2.9
160°-170°	69.0	1.8
170°-180°	23.2	0.6
0°-30°	703.0	18.2
0°-40°	1145.0	29.7
0°-60°	1914.0	49.6
0°-90°	2273.7	58.9
90°-120°	758.6	19.7
90°-150°	1380.1	35.8
90°-180°	1585.0	41.1
0°-180°	3858.8	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°	1	3	6	7	7	2
95°	17	64	203	88	59	18
105°	56	88	348	530	499	60
115°	100	121	279	554	632	99
125°	137	156	252	425	501	122
135°	166	184	245	346	390	128
145°	191	205	242	294	316	120
155°	216	224	240	264	272	100
165°	234	237	241	251	252	66
175°	243	244	242	245	244	23
180°	243	243	243	243	243	

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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°	8.3	11.2	13.6	13.9	13.3
90°	0.8	3.1	5.5	7.0	7.0
92.5°	7.0	31.9	55.4	23.8	20.1
95°	17.2	63.7	203.0	88.3	59.3
97.5°	28.4	70.4	311.1	242.1	170.0
100°	35.9	74.8	344.2	349.0	281.8
102.5°	43.4	79.3	353.0	431.6	372.3
105°	56.2	87.5	348.1	530.1	498.8
107.5°	69.5	97.1	328.0	581.0	589.7
110°	78.8	104.0	313.0	591.0	628.4

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	87.0	110.9	298.0	582.7	639.0
115°	99.9	121.3	278.7	554.4	631.5
117.5°	112.1	132.5	266.3	514.4	601.2
120°	120.2	140.1	260.7	487.5	573.7
122.5°	127.1	146.9	257.0	460.6	543.8
125°	137.4	156.5	252.1	424.8	501.1
127.5°	146.6	165.5	249.5	397.7	463.2
130°	152.2	170.5	248.2	380.7	439.5
132.5°	157.8	176.2	247.0	366.2	418.2
135°	165.5	183.8	245.1	346.0	390.3
137.5°	173.8	190.4	244.2	328.2	365.5
140°	178.8	194.8	243.5	316.9	350.5
142.5°	183.8	198.6	242.9	308.0	336.1
145°	191.2	205.0	242.0	294.0	316.1
147.5°	199.7	211.4	241.2	283.0	300.4
150°	205.3	215.2	241.2	276.6	290.4
152.5°	209.7	218.4	240.6	271.0	282.3
155°	216.2	223.9	240.4	264.0	271.6
157.5°	222.6	228.6	240.4	259.3	265.1
160°	226.4	231.7	240.4	256.1	260.7
162.5°	230.1	234.2	241.0	253.6	257.0
165°	234.2	237.2	241.2	251.4	252.1
167.5°	238.4	239.9	242.0	248.7	249.3
170°	239.6	241.2	242.0	247.4	247.4
172.5°	240.9	241.8	242.0	246.2	246.2
175°	242.8	243.5	242.0	245.1	244.3
177.5°	243.4	243.4	241.5	244.0	242.8
180°	242.8	242.8	242.8	242.8	242.8

(END OF REPORT)