

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: P561804

Luminaire Tested: **SQ4-PR1-025U-100D-92765-1D-UNV-STD-W-4 (3000K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P561804
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, 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-PR1-025U-100D-92765-1D-UNV-STD-W-4 (3000K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5730.1 lumens
Efficiency: N/A
Efficacy: 101.6 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-Direct

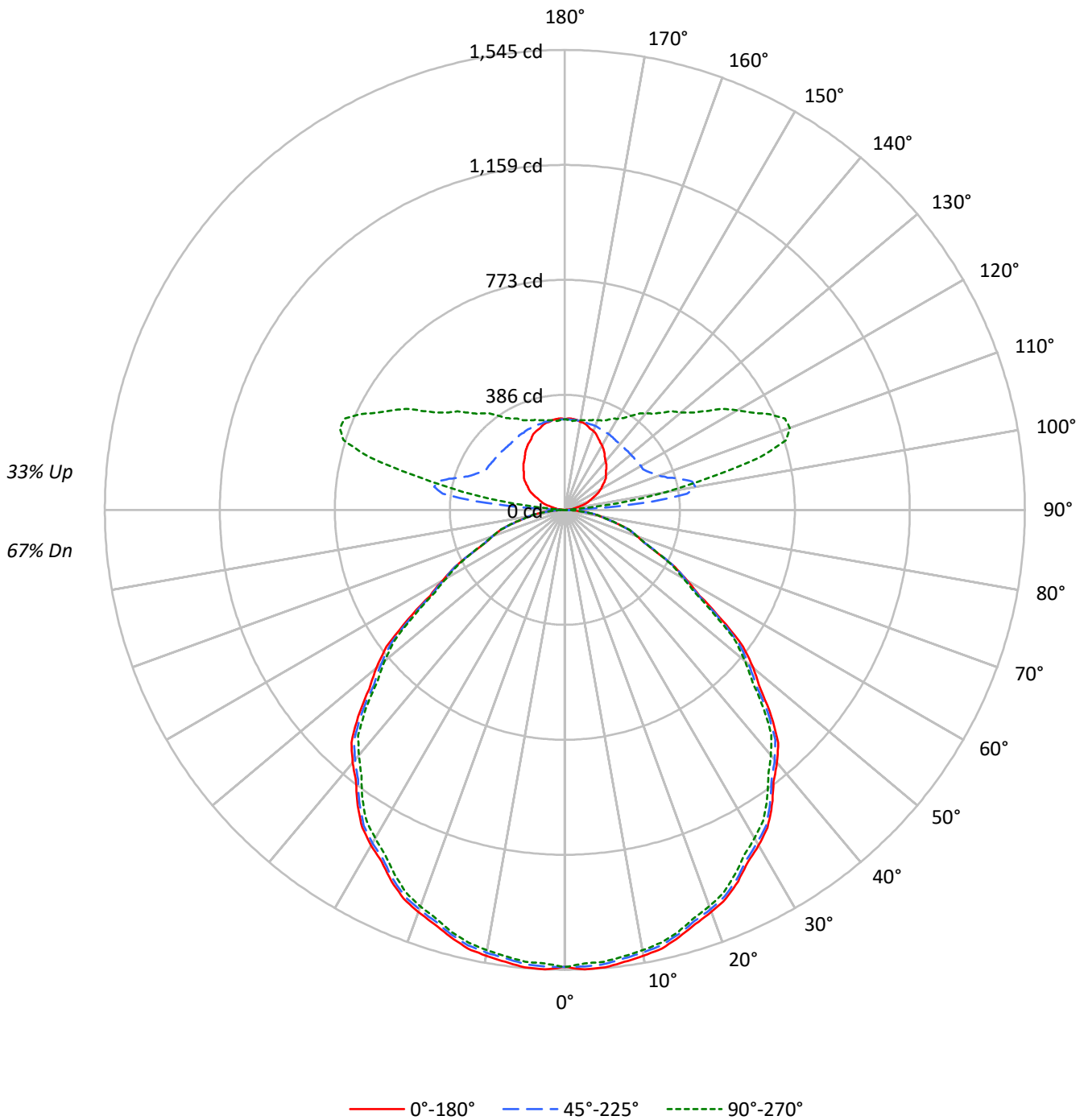
Input Watts (W): 56.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	111	111	111	111	105	105	105	105	93	93	93	82	82	82	72	72	72	67
1	102	98	94	90	96	92	89	86	82	79	77	73	71	69	64	63	61	57
2	93	86	80	75	88	81	76	71	72	68	65	64	61	58	57	54	52	49
3	85	76	68	63	80	72	65	60	64	59	55	57	53	50	51	48	45	42
4	78	67	59	53	74	64	57	51	57	52	47	51	47	43	46	42	39	36
5	72	60	52	46	68	57	50	44	51	45	41	46	41	37	41	37	34	31
6	66	54	46	40	63	52	44	39	47	40	36	42	37	33	37	33	30	28
7	62	49	41	35	58	47	39	34	42	36	32	38	33	29	34	30	27	25
8	57	45	37	31	54	43	35	30	39	33	28	35	30	26	31	27	24	22
9	53	41	33	28	50	39	32	27	36	30	25	32	27	24	29	25	22	20
10	50	38	30	25	47	36	29	25	33	27	23	30	25	21	27	23	20	18

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14168	14168	14168
5°	14295	14185	14111
10°	14250	14150	14076
15°	14187	14098	14023
20°	14116	14024	13920
25°	14016	13922	13760
30°	13866	13766	13569
35°	13660	13542	13348
40°	13348	13205	12967
45°	12805	12581	12321
50°	11846	11562	11333
55°	10340	10105	9893
60°	8713	8639	8468
65°	7536	7564	7508
70°	6922	6957	6957
75°	6648	6648	6695
80°	6254	6323	6254
85°	5039	5600	5600



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.2	2.5
10°-20°	415.5	7.3
20°-30°	626.6	10.9
30°-40°	746.6	13.0
40°-50°	736.1	12.8
50°-60°	562.6	9.8
60°-70°	348.2	6.1
70°-80°	197.7	3.5
80°-90°	60.1	1.0
90°-100°	138.8	2.4
100°-110°	394.8	6.9
110°-120°	378.2	6.6
120°-130°	299.4	5.2
130°-140°	240.3	4.2
140°-150°	188.1	3.3
150°-160°	137.6	2.4
160°-170°	85.3	1.5
170°-180°	28.9	0.5
0°-30°	1187.3	20.7
0°-40°	1934.0	33.8
0°-60°	3232.7	56.4
0°-90°	3838.7	67.0
90°-120°	911.8	15.9
90°-150°	1639.5	28.6
90°-180°	1891.0	33.0
0°-180°	5730.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1536	1536	1536	1536	1536	
5°	1544	1527	1532	1526	1524	146
15°	1485	1470	1476	1471	1468	419
25°	1377	1360	1368	1353	1352	634
35°	1213	1199	1202	1186	1185	757
45°	981	968	964	947	944	752
55°	643	632	628	618	615	576
65°	345	343	346	344	344	350
75°	186	186	186	188	188	197
85°	48	50	53	53	53	55
90°	0	0	0	0	0	3
95°	15	60	269	93	57	17
105°	61	93	402	711	676	65
115°	114	138	305	646	759	112
125°	161	178	291	483	578	144
135°	197	213	288	408	461	152
145°	232	244	290	353	385	145
155°	265	271	297	319	332	123
165°	293	294	300	307	311	82
175°	307	305	304	302	300	29
180°	304	304	304	304	304	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1535.6	1535.6	1535.6	1535.6	1535.6
2.5°	1545.1	1531.6	1535.6	1532.2	1525.0
5°	1543.5	1526.7	1531.6	1526.2	1523.6
7.5°	1531.6	1515.0	1519.9	1514.6	1513.1
10°	1521.0	1505.5	1510.4	1505.1	1502.5
12.5°	1509.4	1492.8	1498.8	1492.4	1489.8
15°	1485.3	1469.8	1476.0	1470.7	1468.1
17.5°	1458.8	1442.3	1448.5	1442.4	1439.0
20°	1437.7	1422.2	1428.4	1419.1	1417.8
22.5°	1414.4	1398.9	1405.1	1392.7	1392.4
25°	1376.8	1360.0	1367.6	1353.0	1351.7
27.5°	1332.1	1316.6	1322.9	1308.0	1306.5
30°	1301.5	1285.9	1292.2	1276.3	1273.7
32.5°	1266.5	1252.0	1257.3	1241.4	1239.8
35°	1212.8	1198.6	1202.3	1186.4	1185.1
37.5°	1151.7	1138.8	1140.9	1123.4	1122.1
40°	1108.3	1095.4	1096.4	1077.9	1076.6
42.5°	1060.7	1047.8	1046.7	1028.2	1026.9
45°	981.4	968.4	964.2	946.9	944.3
47.5°	890.9	878.0	870.0	856.0	854.1
50°	825.3	812.4	805.5	793.5	789.6
52.5°	754.4	741.5	735.6	724.7	720.8
55°	642.8	632.4	628.2	617.6	615.0
57.5°	536.7	529.7	528.5	518.2	517.1
60°	472.2	468.3	468.2	458.9	458.9
62.5°	417.2	414.3	416.4	410.3	409.2
65°	345.2	342.6	346.5	343.9	343.9
67.5°	288.3	288.3	290.7	289.7	289.7
70°	256.6	256.6	257.9	257.9	257.9
72.5°	228.0	227.0	230.4	230.4	229.3
75°	186.5	186.5	186.5	187.8	187.8
77.5°	145.2	145.5	146.5	146.3	145.2
80°	117.7	119.0	119.0	117.7	117.7
82.5°	90.2	91.5	91.5	91.2	90.2
85°	47.6	50.2	52.9	52.9	52.9
87.5°	13.8	17.9	21.2	21.1	20.1
90°	0.0	0.0	0.0	0.0	0.0
92.5°	4.6	24.6	57.0	16.6	12.5
95°	15.1	59.8	268.6	93.0	57.3
97.5°	27.7	70.0	413.7	296.0	202.8
100°	36.5	76.1	445.1	450.9	347.3
102.5°	46.2	82.6	438.2	577.2	486.7
105°	61.4	93.1	402.3	710.6	675.5
107.5°	76.8	105.2	360.4	748.3	779.5
110°	87.4	114.0	336.3	733.9	804.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	97.6	122.8	320.1	699.8	799.9
115°	114.0	137.8	305.1	646.3	758.9
117.5°	128.5	150.8	296.1	587.7	707.0
120°	140.1	158.8	295.2	554.3	668.6
122.5°	149.3	168.0	292.9	524.9	631.1
125°	160.9	178.5	291.2	483.2	577.7
127.5°	173.5	190.0	290.2	458.3	536.1
130°	180.0	196.4	288.9	440.9	508.8
132.5°	187.0	202.9	288.9	427.3	489.8
135°	196.8	213.2	287.7	408.2	461.4
137.5°	206.1	222.0	287.6	391.9	437.9
140°	213.0	229.4	287.1	378.4	422.6
142.5°	220.9	234.6	288.5	367.7	407.3
145°	232.1	244.0	290.0	353.2	384.9
147.5°	241.7	253.3	292.6	338.7	366.1
150°	250.1	258.0	293.5	333.9	353.1
152.5°	256.6	264.9	294.4	327.3	345.2
155°	265.1	271.3	297.0	319.3	332.3
157.5°	275.8	279.5	297.5	315.6	324.9
160°	281.3	284.2	299.9	312.8	320.7
162.5°	284.6	287.9	300.3	310.4	316.5
165°	292.9	294.0	300.4	306.9	311.4
167.5°	298.6	297.6	303.1	306.0	307.8
170°	300.4	299.9	302.2	302.8	305.1
172.5°	304.6	302.7	303.6	301.9	303.7
175°	306.8	305.1	303.9	302.1	299.9
177.5°	307.7	305.0	303.6	301.7	302.2
180°	304.5	304.5	304.5	304.5	304.5

(END OF REPORT)