

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: P563896

Luminaire Tested: **SQ4-PR1-025U-075D-940-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563896
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, 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-075D-940-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

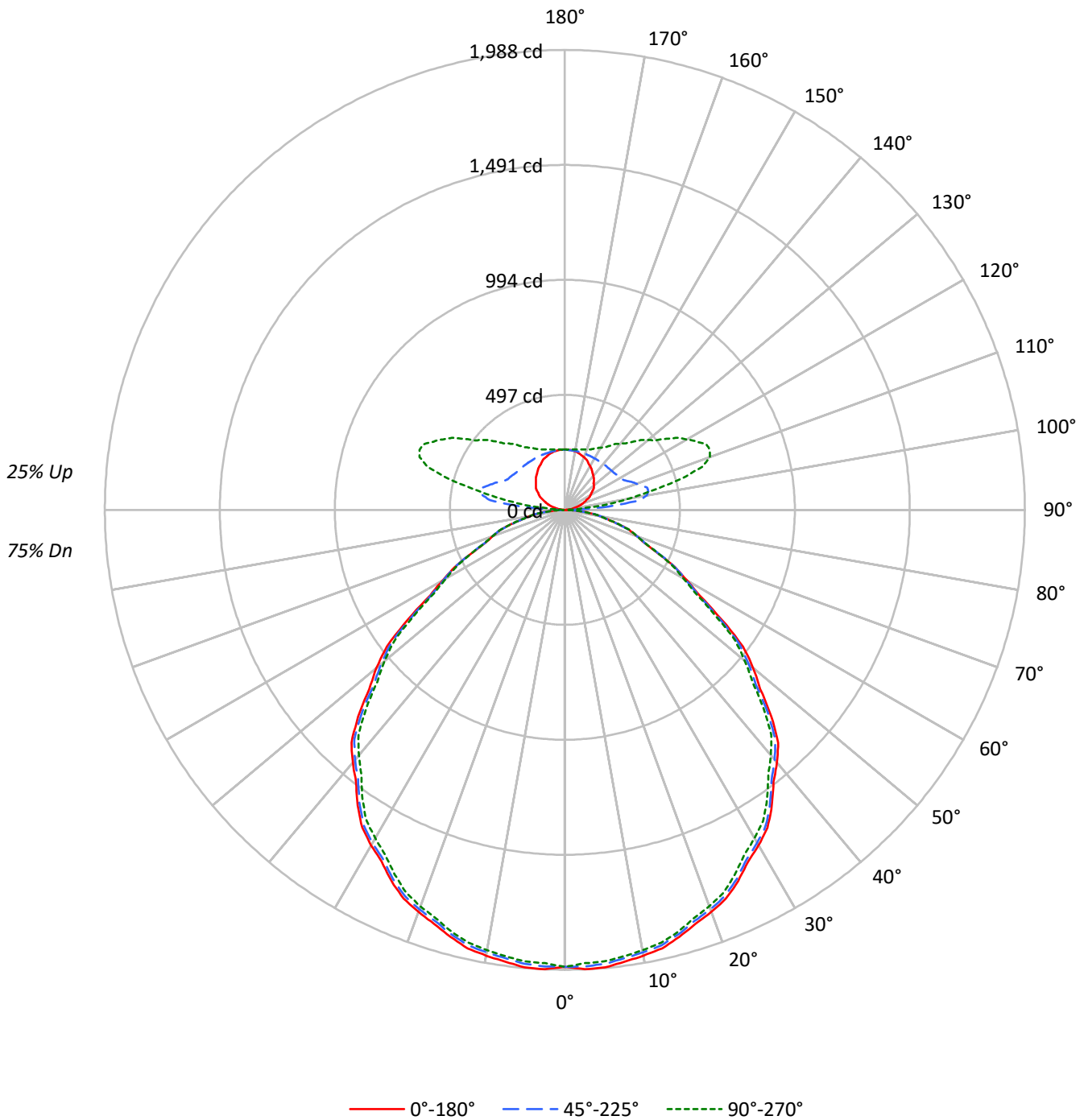
Lumens per Lamp: N/A
Luminaire Lumens: 6626.3 lumens
Efficiency: N/A
Efficacy: 102.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 64.9
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	50	30	10	0	
RCR																						
0	113	113	113	113	107	107	107	107	97	97	97	87	87	87	79	79	79	75				
1	104	99	95	92	98	95	91	88	86	83	81	78	76	74	70	69	67	64				
2	95	87	81	76	90	83	78	73	76	71	68	69	65	62	62	60	57	54				
3	87	77	70	64	82	74	67	62	67	62	57	61	57	53	56	52	49	46				
4	80	69	61	54	76	66	58	53	60	54	49	55	50	46	50	46	43	40				
5	73	61	53	47	70	59	51	46	54	48	43	49	44	40	45	41	38	35				
6	68	55	47	41	64	53	46	40	49	42	38	45	40	35	41	37	33	31				
7	63	50	42	36	60	48	41	35	44	38	33	41	36	32	38	33	30	27				
8	58	46	38	32	56	44	37	32	41	34	30	38	32	28	35	30	27	25				
9	55	42	34	29	52	40	33	28	37	31	27	35	29	25	32	27	24	22				
10	51	39	31	26	49	37	30	26	35	29	24	32	27	23	30	25	22	20				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9112	9112	9112
5°	9194	9123	9076
10°	9165	9102	9054
15°	9125	9068	9020
20°	9079	9021	8954
25°	9015	8954	8850
30°	8918	8855	8727
35°	8786	8710	8585
40°	8586	8494	8340
45°	8236	8092	7925
50°	7620	7437	7289
55°	6651	6500	6363
60°	5604	5557	5447
65°	4848	4866	4829
70°	4452	4475	4475
75°	4276	4276	4306
80°	4022	4067	4022
85°	3245	3604	3604



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	186.8	2.8
10°-20°	534.4	8.1
20°-30°	806.1	12.2
30°-40°	960.5	14.5
40°-50°	946.9	14.3
50°-60°	723.7	10.9
60°-70°	447.9	6.8
70°-80°	254.4	3.8
80°-90°	78.8	1.2
90°-100°	126.8	1.9
100°-110°	333.5	5.0
110°-120°	345.8	5.2
120°-130°	277.3	4.2
130°-140°	217.6	3.3
140°-150°	167.0	2.5
150°-160°	120.3	1.8
160°-170°	73.6	1.1
170°-180°	24.9	0.4
0°-30°	1527.4	23.0
0°-40°	2487.8	37.5
0°-60°	4158.5	62.8
0°-90°	4939.5	74.5
90°-120°	806.1	12.2
90°-150°	1468.1	22.2
90°-180°	1687.0	25.5
0°-180°	6626.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1975	1975	1975	1975	1975	
5°	1986	1964	1970	1963	1960	188
15°	1911	1891	1899	1892	1889	539
25°	1771	1750	1759	1740	1739	815
35°	1560	1542	1547	1526	1524	974
45°	1262	1246	1240	1218	1215	967
55°	827	814	808	794	791	741
65°	444	441	446	442	442	450
75°	240	240	240	242	242	253
85°	61	65	68	68	68	71
90°	2	5	13	7	7	4
95°	17	66	218	113	77	19
105°	60	91	369	560	522	64
115°	107	130	295	589	672	105
125°	148	166	269	454	536	132
135°	177	195	260	366	415	137
145°	205	218	257	312	337	129
155°	232	238	257	282	290	107
165°	250	254	257	267	270	71
175°	260	260	259	262	262	25
180°	260	260	260	260	260	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1975.3	1975.3	1975.3	1975.3	1975.3
2.5°	1987.6	1970.3	1975.3	1971.0	1961.7
5°	1985.5	1963.9	1970.2	1963.3	1960.0
7.5°	1970.2	1948.9	1955.3	1948.4	1946.4
10°	1956.6	1936.6	1943.0	1936.1	1932.8
12.5°	1941.6	1920.3	1928.0	1919.8	1916.5
15°	1910.7	1890.7	1898.8	1891.9	1888.6
17.5°	1876.6	1855.4	1863.4	1855.5	1851.1
20°	1849.4	1829.5	1837.5	1825.6	1823.9
22.5°	1819.5	1799.5	1807.6	1791.6	1791.2
25°	1771.2	1749.5	1759.2	1740.5	1738.8
27.5°	1713.7	1693.7	1701.7	1682.6	1680.6
30°	1674.2	1654.2	1662.3	1641.8	1638.4
32.5°	1629.3	1610.6	1617.4	1596.9	1594.9
35°	1560.2	1541.9	1546.6	1526.1	1524.5
37.5°	1481.6	1464.9	1467.6	1445.1	1443.5
40°	1425.8	1409.1	1410.5	1386.6	1384.9
42.5°	1364.5	1347.9	1346.5	1322.6	1321.0
45°	1262.4	1245.8	1240.3	1218.1	1214.8
47.5°	1146.1	1129.4	1119.2	1101.1	1098.8
50°	1061.7	1045.0	1036.2	1020.7	1015.7
52.5°	970.5	953.8	946.3	932.3	927.3
55°	826.9	813.6	808.2	794.5	791.2
57.5°	690.4	681.4	679.9	666.6	665.2
60°	607.4	602.4	602.3	590.4	590.4
62.5°	536.6	533.0	535.6	527.7	526.4
65°	444.1	440.7	445.8	442.4	442.4
67.5°	370.9	370.9	374.0	372.6	372.6
70°	330.1	330.1	331.8	331.8	331.8
72.5°	293.3	292.0	296.4	296.4	295.0
75°	239.9	239.9	239.9	241.6	241.6
77.5°	186.8	187.1	188.5	188.1	186.8
80°	151.4	153.1	153.1	151.4	151.4
82.5°	116.0	117.7	117.7	117.4	116.0
85°	61.3	64.6	68.1	68.1	68.1
87.5°	18.0	24.0	29.9	28.5	27.2
90°	1.7	4.9	13.3	6.7	6.7
92.5°	7.0	33.8	74.7	33.1	21.4
95°	16.7	65.6	218.5	112.6	76.7
97.5°	29.0	72.1	327.0	260.0	191.5
100°	38.4	77.5	360.3	365.2	283.6
102.5°	46.4	82.9	369.7	454.9	385.0
105°	60.1	91.1	368.7	559.7	522.2
107.5°	74.1	102.8	347.7	614.1	623.3
110°	83.4	109.5	330.3	628.2	667.3

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	92.8	117.6	314.3	619.3	679.3
115°	106.8	129.6	295.3	589.1	672.3
117.5°	120.4	141.3	282.3	547.3	639.6
120°	128.5	148.0	276.9	519.2	608.9
122.5°	136.5	156.0	272.9	491.1	579.6
125°	148.5	166.4	268.6	454.0	535.5
127.5°	158.2	176.4	264.9	424.0	492.8
130°	163.5	183.1	263.6	405.2	468.8
132.5°	168.8	188.4	262.3	389.0	446.1
135°	176.8	194.8	260.3	366.5	415.4
137.5°	185.2	202.8	259.9	349.6	389.7
140°	191.9	208.2	258.6	336.2	373.7
142.5°	197.2	212.2	258.6	326.7	359.0
145°	205.2	218.2	256.9	312.5	337.0
147.5°	213.2	225.9	256.9	300.7	321.0
150°	218.5	230.0	256.9	294.0	310.3
152.5°	223.9	232.7	256.9	288.6	301.0
155°	231.9	238.4	256.9	282.1	290.3
157.5°	237.9	244.1	256.9	276.4	282.3
160°	241.9	246.8	256.9	273.7	276.9
162.5°	245.9	249.5	256.9	271.0	274.3
165°	250.2	253.5	256.9	267.0	270.3
167.5°	254.2	255.9	258.6	265.3	266.6
170°	256.9	258.5	258.6	265.3	265.3
172.5°	258.2	258.6	258.6	263.9	262.6
175°	260.3	260.3	258.6	261.9	261.9
177.5°	260.3	260.3	258.9	261.6	260.3
180°	260.3	260.3	260.3	260.3	260.3

(END OF REPORT)