

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: P563926

Luminaire Tested: **SQ4-PR1-025U-125D-835-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563926
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-125D-835-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

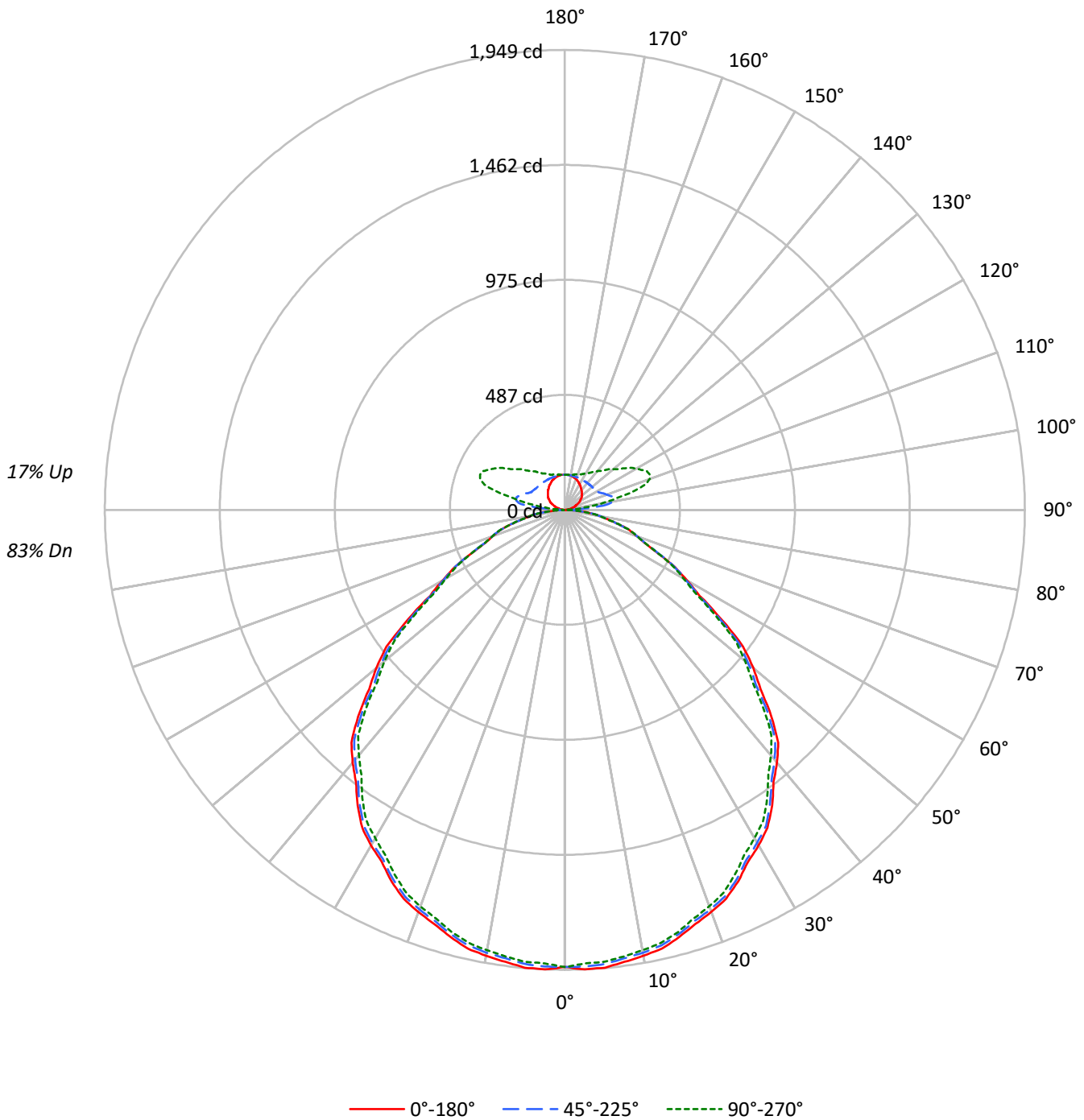
Lumens per Lamp: N/A
Luminaire Lumens: 5809.5 lumens
Efficiency: N/A
Efficacy: 117.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 49.5
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									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	50	30	10	50	30	10	50	30	10	0																
RCR																																														
0	115	115	115	115	110	110	110	110	102	102	102	94	94	94	87	87	87	83																			83									
1	106	101	97	94	101	97	94	91	90	87	85	84	81	79	77	76	74	71																			71									
2	97	89	83	78	93	86	80	75	80	75	71	74	70	67	69	66	63	60																			60									
3	89	79	71	65	85	76	69	64	71	65	60	66	61	57	61	58	54	52																			52									
4	81	70	62	56	78	68	60	55	63	57	52	59	54	50	55	51	47	45																			45									
5	75	63	55	48	72	61	53	47	57	50	45	53	48	43	50	45	41	39																			39									
6	69	57	48	42	66	55	47	42	52	45	40	48	43	38	45	41	37	34																			34									
7	64	52	43	37	62	50	42	37	47	40	35	44	38	34	42	37	33	31																			31									
8	60	47	39	33	57	46	38	33	43	36	32	41	35	31	38	33	29	27																			27									
9	56	43	35	30	54	42	35	30	40	33	29	37	32	28	35	30	27	25																			25									
10	52	40	32	27	50	39	32	27	37	30	26	35	29	25	33	28	24	22																			22									

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	17873	17873	17873
5°	18034	17895	17802
10°	17977	17852	17758
15°	17898	17786	17691
20°	17807	17694	17562
25°	17683	17564	17360
30°	17492	17367	17118
35°	17234	17083	16838
40°	16841	16659	16358
45°	16155	15871	15545
50°	14945	14586	14297
55°	13044	12749	12481
60°	10992	10900	10684
65°	9507	9545	9470
70°	8732	8778	8778
75°	8388	8388	8445
80°	7890	7980	7890
85°	6362	7061	7061



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	183.2	3.2
10°-20°	524.1	9.0
20°-30°	790.6	13.6
30°-40°	941.9	16.2
40°-50°	928.7	16.0
50°-60°	709.8	12.2
60°-70°	439.2	7.6
70°-80°	249.5	4.3
80°-90°	76.7	1.3
90°-100°	72.6	1.3
100°-110°	190.9	3.3
110°-120°	198.0	3.4
120°-130°	158.8	2.7
130°-140°	124.6	2.1
140°-150°	95.6	1.6
150°-160°	68.9	1.2
160°-170°	42.1	0.7
170°-180°	14.2	0.2
0°-30°	1497.9	25.8
0°-40°	2439.8	42.0
0°-60°	4078.3	70.2
0°-90°	4843.6	83.4
90°-120°	461.6	7.9
90°-150°	840.6	14.5
90°-180°	966.0	16.6
0°-180°	5809.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1937	1937	1937	1937	1937	
5°	1947	1926	1932	1926	1922	185
15°	1874	1854	1862	1855	1852	529
25°	1737	1716	1725	1707	1705	799
35°	1530	1512	1517	1497	1495	955
45°	1238	1222	1216	1195	1191	949
55°	811	798	793	779	776	727
65°	436	432	437	434	434	441
75°	235	235	235	237	237	248
85°	60	63	67	67	67	70
90°	1	3	8	4	4	3
95°	10	38	125	64	44	11
105°	34	52	211	320	299	36
115°	61	74	169	337	385	60
125°	85	95	154	260	307	75
135°	101	112	149	210	238	78
145°	118	125	147	179	193	74
155°	133	136	147	162	166	61
165°	143	145	147	153	155	40
175°	149	149	148	150	150	14
180°	149	149	149	149	149	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1937.2	1937.2	1937.2	1937.2	1937.2
2.5°	1949.2	1932.3	1937.2	1933.0	1923.9
5°	1947.2	1926.0	1932.2	1925.5	1922.2
7.5°	1932.2	1911.3	1917.5	1910.8	1908.8
10°	1918.9	1899.3	1905.5	1898.8	1895.5
12.5°	1904.2	1883.3	1890.8	1882.7	1879.5
15°	1873.8	1854.2	1862.1	1855.4	1852.1
17.5°	1840.4	1819.6	1827.4	1819.7	1815.4
20°	1813.7	1794.2	1802.1	1790.3	1788.7
22.5°	1784.4	1764.8	1772.7	1757.0	1756.7
25°	1737.0	1715.8	1725.3	1706.9	1705.3
27.5°	1680.6	1661.0	1668.9	1650.2	1648.2
30°	1641.9	1622.3	1630.2	1610.1	1606.8
32.5°	1597.8	1579.6	1586.1	1566.1	1564.1
35°	1530.1	1512.1	1516.7	1496.7	1495.0
37.5°	1453.0	1436.7	1439.3	1417.3	1415.6
40°	1398.3	1382.0	1383.2	1359.9	1358.2
42.5°	1338.2	1321.9	1320.5	1297.1	1295.5
45°	1238.1	1221.8	1216.4	1194.6	1191.4
47.5°	1124.0	1107.6	1097.6	1079.8	1077.6
50°	1041.2	1024.9	1016.2	1001.0	996.1
52.5°	951.8	935.4	928.1	914.3	909.4
55°	810.9	797.9	792.6	779.2	775.9
57.5°	677.1	668.3	666.8	653.7	652.4
60°	595.7	590.8	590.7	579.0	579.0
62.5°	526.3	522.7	525.3	517.6	516.3
65°	435.5	432.2	437.2	433.8	433.8
67.5°	363.7	363.7	366.8	365.4	365.4
70°	323.7	323.7	325.4	325.4	325.4
72.5°	287.7	286.4	290.7	290.6	289.3
75°	235.3	235.3	235.3	236.9	236.9
77.5°	183.2	183.5	184.9	184.5	183.2
80°	148.5	150.1	150.2	148.5	148.5
82.5°	113.8	115.4	115.5	115.1	113.8
85°	60.1	63.3	66.7	66.7	66.7
87.5°	17.5	23.1	28.2	27.4	26.1
90°	1.0	2.8	7.6	3.8	3.8
92.5°	4.0	19.3	42.8	19.0	12.2
95°	9.6	37.6	125.1	64.5	43.9
97.5°	16.6	41.3	187.2	148.9	109.7
100°	22.0	44.4	206.3	209.1	162.4
102.5°	26.6	47.5	211.7	260.5	220.5
105°	34.4	52.1	211.1	320.5	299.0
107.5°	42.4	58.9	199.1	351.7	356.9
110°	47.8	62.7	189.1	359.7	382.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	53.1	67.3	180.0	354.6	389.0
115°	61.1	74.2	169.1	337.3	385.0
117.5°	69.0	80.9	161.6	313.4	366.3
120°	73.6	84.8	158.6	297.3	348.7
122.5°	78.1	89.4	156.3	281.2	331.9
125°	85.0	95.3	153.8	259.9	306.6
127.5°	90.6	101.0	151.7	242.8	282.2
130°	93.6	104.8	150.9	232.0	268.4
132.5°	96.7	107.9	150.2	222.8	255.4
135°	101.3	111.5	149.0	209.8	237.9
137.5°	106.0	116.1	148.8	200.2	223.2
140°	109.9	119.2	148.1	192.5	214.0
142.5°	112.9	121.5	148.1	187.1	205.6
145°	117.5	125.0	147.1	179.0	193.0
147.5°	122.1	129.4	147.1	172.2	183.8
150°	125.1	131.7	147.1	168.3	177.7
152.5°	128.2	133.2	147.1	165.2	172.3
155°	132.8	136.5	147.1	161.5	166.2
157.5°	136.2	139.8	147.1	158.3	161.6
160°	138.5	141.3	147.1	156.7	158.6
162.5°	140.8	142.9	147.1	155.2	157.0
165°	143.3	145.2	147.1	152.9	154.8
167.5°	145.6	146.5	148.1	151.9	152.7
170°	147.1	148.0	148.1	151.9	151.9
172.5°	147.9	148.1	148.1	151.1	150.4
175°	149.0	149.0	148.1	150.0	150.0
177.5°	149.0	149.0	148.3	149.8	149.0
180°	149.0	149.0	149.0	149.0	149.0

(END OF REPORT)