

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: P562079

Luminaire Tested: **SQ4-PR1-125U-125D-92765-1D-UNV-STD-W-4 (4000K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562079
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-PR1-125U-125D-92765-1D-UNV-STD-W-4 (4000K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

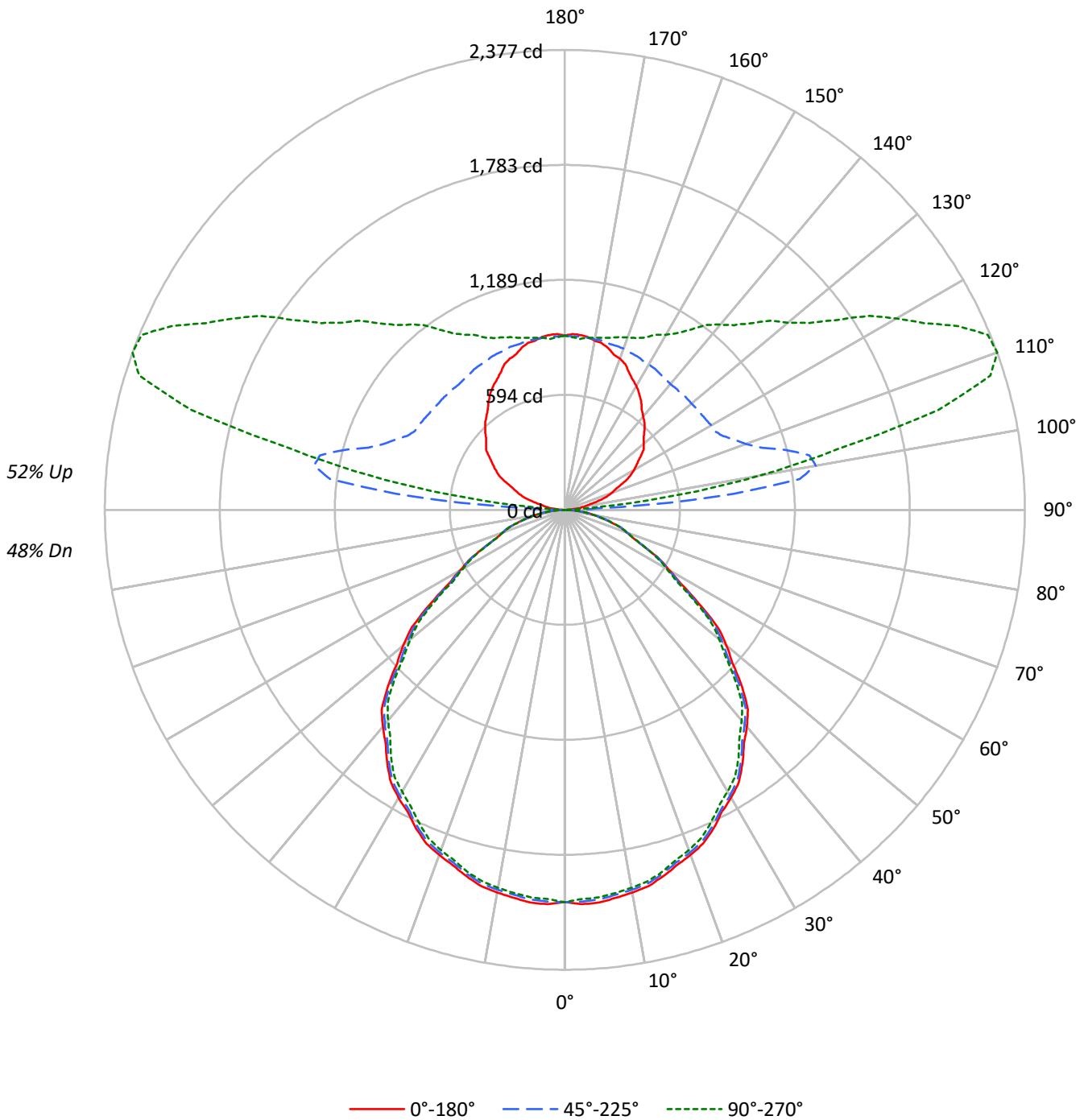
Lumens per Lamp: N/A
Luminaire Lumens: 10660.0 lumens
Efficiency: N/A
Efficacy: 109.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 97.3
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	50	30	10	0	
RCR																						
0	107	107	107	107	98	98	98	98	82	82	82	67	67	67	54	54	54	48				48
1	98	93	90	86	90	86	83	80	72	70	68	60	58	57	48	47	46				41	
2	89	82	76	71	82	75	70	66	64	60	57	53	50	48	43	41	39				34	
3	81	72	65	59	75	67	60	55	56	52	48	47	43	41	38	36	34				29	
4	75	64	56	50	68	59	52	47	50	45	41	42	38	35	34	31	29				25	
5	68	57	49	43	63	53	46	41	45	40	35	38	34	30	31	28	26				22	
6	63	51	43	38	58	48	40	35	41	35	31	34	30	27	28	25	23				20	
7	58	46	38	33	54	43	36	31	37	31	27	31	27	24	26	22	20				17	
8	54	42	34	29	50	39	32	27	34	28	24	28	24	21	23	20	18				16	
9	50	38	31	26	46	36	29	25	31	25	22	26	22	19	22	19	16				14	
10	47	35	28	23	43	33	26	22	28	23	20	24	20	17	20	17	15				13	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	18703	18703	18703
5°	18872	18727	18629
10°	18812	18681	18582
15°	18729	18612	18512
20°	18635	18515	18378
25°	18504	18379	18166
30°	18304	18174	17914
35°	18033	17877	17621
40°	17623	17434	17118
45°	16905	16609	16267
50°	15639	15263	14962
55°	13650	13341	13060
60°	11501	11405	11180
65°	9948	9988	9911
70°	9137	9185	9185
75°	8776	8776	8837
80°	8257	8347	8257
85°	6659	7389	7389



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	191.7	1.8
10°-20°	548.5	5.1
20°-30°	827.3	7.8
30°-40°	985.7	9.2
40°-50°	971.8	9.1
50°-60°	742.7	7.0
60°-70°	459.6	4.3
70°-80°	261.1	2.4
80°-90°	79.4	0.7
90°-100°	410.2	3.8
100°-110°	1167.3	10.9
110°-120°	1118.4	10.5
120°-130°	885.2	8.3
130°-140°	710.5	6.7
140°-150°	556.2	5.2
150°-160°	407.0	3.8
160°-170°	252.1	2.4
170°-180°	85.5	0.8
0°-30°	1567.5	14.7
0°-40°	2553.2	24.0
0°-60°	4267.7	40.0
0°-90°	5067.8	47.5
90°-120°	2695.9	25.3
90°-150°	4847.7	45.5
90°-180°	5592.0	52.5
0°-180°	10660.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2027	2027	2027	2027	2027	
5°	2038	2016	2022	2015	2012	193
15°	1961	1940	1949	1942	1938	553
25°	1818	1796	1805	1786	1784	836
35°	1601	1582	1587	1566	1564	999
45°	1296	1278	1273	1250	1247	993
55°	849	835	829	815	812	760
65°	456	452	458	454	454	462
75°	246	246	246	248	248	260
85°	63	66	70	70	70	73
90°	0	0	0	0	0	4
95°	44	177	794	275	169	51
105°	181	275	1190	2101	1997	192
115°	337	408	902	1911	2244	332
125°	476	528	861	1429	1708	426
135°	582	630	851	1207	1364	449
145°	686	722	858	1044	1138	429
155°	784	802	878	944	982	362
165°	866	869	888	907	921	244
175°	907	902	899	893	887	86
180°	900	900	900	900	900	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2027.2	2027.2	2027.2	2027.2	2027.2
2.5°	2039.8	2022.0	2027.2	2022.8	2013.2
5°	2037.7	2015.5	2022.0	2014.9	2011.5
7.5°	2022.0	2000.1	2006.6	1999.6	1997.5
10°	2008.0	1987.5	1994.0	1987.0	1983.5
12.5°	1992.6	1970.8	1978.7	1970.2	1966.8
15°	1960.8	1940.4	1948.6	1941.6	1938.1
17.5°	1925.9	1904.1	1912.3	1904.2	1899.7
20°	1898.0	1877.5	1885.8	1873.5	1871.8
22.5°	1867.3	1846.8	1855.0	1838.6	1838.3
25°	1817.7	1795.5	1805.4	1786.2	1784.5
27.5°	1758.6	1738.2	1746.4	1726.8	1724.8
30°	1718.1	1697.6	1705.9	1684.9	1681.5
32.5°	1672.0	1652.9	1659.8	1638.8	1636.8
35°	1601.1	1582.4	1587.2	1566.2	1564.5
37.5°	1520.5	1503.4	1506.2	1483.1	1481.4
40°	1463.2	1446.1	1447.5	1423.0	1421.3
42.5°	1400.4	1383.3	1381.8	1357.4	1355.7
45°	1295.6	1278.5	1272.9	1250.1	1246.7
47.5°	1176.2	1159.1	1148.6	1130.0	1127.6
50°	1089.6	1072.5	1063.4	1047.5	1042.4
52.5°	996.0	978.9	971.2	956.7	951.6
55°	848.6	834.9	829.4	815.3	811.9
57.5°	708.6	699.3	697.7	684.1	682.7
60°	623.3	618.2	618.1	605.9	605.9
62.5°	550.7	547.0	549.7	541.6	540.2
65°	455.7	452.3	457.5	454.0	454.0
67.5°	380.6	380.6	383.8	382.4	382.4
70°	338.7	338.7	340.5	340.5	340.5
72.5°	301.0	299.7	304.2	304.1	302.8
75°	246.2	246.2	246.2	247.9	247.9
77.5°	191.7	192.1	193.5	193.1	191.7
80°	155.4	157.1	157.1	155.4	155.4
82.5°	119.1	120.8	120.8	120.4	119.1
85°	62.9	66.3	69.8	69.8	69.8
87.5°	18.2	23.6	27.9	27.9	26.5
90°	0.0	0.0	0.0	0.0	0.0
92.5°	13.7	72.6	168.4	49.0	37.0
95°	44.5	176.7	794.2	274.9	169.4
97.5°	81.8	207.0	1223.1	875.2	599.7
100°	107.8	225.0	1316.2	1333.2	1026.9
102.5°	136.6	244.4	1295.7	1706.5	1439.1
105°	181.4	275.1	1189.5	2101.2	1997.4
107.5°	227.0	311.0	1065.6	2212.4	2304.8
110°	258.4	337.1	994.4	2169.9	2377.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	288.6	363.2	946.5	2069.2	2365.0
115°	337.2	407.5	902.0	1910.8	2243.9
117.5°	380.0	445.9	875.6	1737.7	2090.5
120°	414.2	469.4	872.9	1638.8	1976.9
122.5°	441.6	496.8	866.1	1552.0	1866.0
125°	475.8	527.7	860.9	1428.7	1708.1
127.5°	513.1	561.7	858.2	1355.0	1585.3
130°	532.3	580.8	854.1	1303.6	1504.5
132.5°	552.8	600.0	854.1	1263.6	1448.3
135°	581.9	630.5	850.7	1206.8	1364.1
137.5°	609.3	656.5	850.3	1158.7	1294.6
140°	629.9	678.4	848.9	1118.9	1249.4
142.5°	653.1	693.6	853.0	1087.1	1204.3
145°	686.3	721.5	857.5	1044.5	1138.2
147.5°	714.8	748.9	865.0	1001.4	1082.4
150°	739.4	762.8	867.8	987.2	1044.1
152.5°	758.6	783.3	870.5	967.9	1020.8
155°	783.9	802.3	878.0	943.9	982.4
157.5°	815.4	826.4	879.7	933.1	960.5
160°	831.8	840.2	886.6	924.8	948.2
162.5°	841.4	851.1	888.0	917.8	935.9
165°	866.1	869.4	888.3	907.4	920.8
167.5°	882.8	879.8	896.2	904.9	910.2
170°	888.3	886.6	893.4	895.3	902.0
172.5°	900.6	894.9	897.5	892.5	897.9
175°	907.1	902.1	898.6	893.3	886.6
177.5°	909.9	901.8	897.5	892.1	893.4
180°	900.3	900.3	900.3	900.3	900.3

(END OF REPORT)