

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: P562287

Luminaire Tested: **SQ4-PW1-075U-125D-92765-1D-UNV-STD-W-4 (4000K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562287
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, G2-2106-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PW1-075U-125D-92765-1D-UNV-STD-W-4 (4000K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

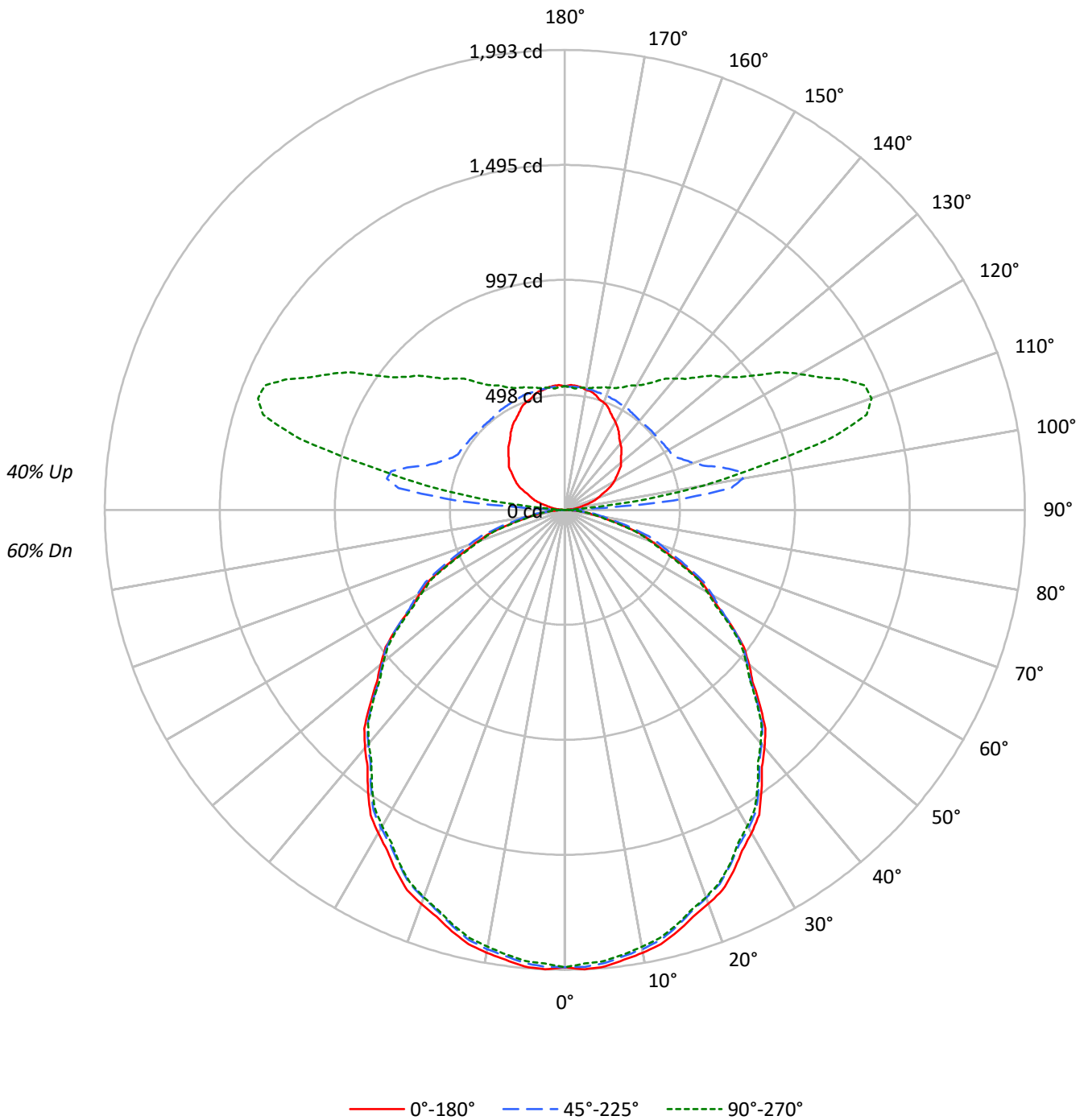
Lumens per Lamp: N/A
Luminaire Lumens: 8369.4 lumens
Efficiency: N/A
Efficacy: 105.3 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 79.5
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	
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	110	110	110	110	102	102	102	102	89	89	89	77	77	77	66	66	66	60
1	100	96	92	88	94	90	86	83	78	76	74	68	66	64	58	57	56	51
2	91	84	78	72	85	79	73	69	69	65	61	60	57	54	51	49	47	43
3	83	74	66	60	78	69	63	57	61	56	51	53	49	46	46	43	40	36
4	76	65	57	51	71	61	54	49	54	48	44	47	43	39	41	37	35	31
5	70	58	50	44	65	55	48	42	48	42	38	42	38	34	37	33	30	27
6	65	52	44	38	60	49	42	37	44	38	33	38	34	30	33	30	27	24
7	60	47	39	34	56	45	37	32	40	34	29	35	30	26	30	27	24	21
8	56	43	35	30	52	41	34	29	36	30	26	32	27	24	28	24	21	19
9	52	39	32	27	48	37	30	26	33	27	23	29	25	21	26	22	19	17
10	48	36	29	24	45	34	28	23	31	25	21	27	23	19	24	20	17	16

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	18284	18284	18284
5°	18402	18257	18177
10°	18256	18108	18010
15°	18062	17863	17796
20°	17847	17572	17537
25°	17597	17277	17225
30°	17226	16965	16853
35°	16736	16500	16401
40°	16214	15962	15898
45°	15583	15378	15310
50°	14938	14811	14711
55°	14240	14240	14015
60°	13371	13629	13145
65°	12236	12845	11931
70°	10788	11823	10504
75°	9211	10580	8962
80°	7141	8905	7237
85°	4626	6838	6097



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	186.6	2.2
10°-20°	526.9	6.3
20°-30°	781.5	9.3
30°-40°	914.5	10.9
40°-50°	910.4	10.9
50°-60°	786.2	9.4
60°-70°	565.9	6.8
70°-80°	296.7	3.5
80°-90°	73.6	0.9
90°-100°	244.1	2.9
100°-110°	694.5	8.3
110°-120°	665.4	8.0
120°-130°	526.6	6.3
130°-140°	422.7	5.1
140°-150°	330.9	4.0
150°-160°	242.1	2.9
160°-170°	150.0	1.8
170°-180°	50.9	0.6
0°-30°	1495.0	17.9
0°-40°	2409.5	28.8
0°-60°	4106.0	49.1
0°-90°	5042.2	60.2
90°-120°	1603.9	19.2
90°-150°	2884.1	34.5
90°-180°	3327.0	39.8
0°-180°	8369.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1982	1982	1982	1982	1982	
5°	1987	1965	1971	1966	1963	188
15°	1891	1867	1870	1866	1863	533
25°	1729	1700	1697	1687	1692	795
35°	1486	1465	1465	1451	1456	929
45°	1194	1184	1179	1175	1173	921
55°	885	884	885	873	871	790
65°	560	578	588	565	546	555
75°	258	282	297	277	251	277
85°	44	57	65	61	58	58
90°	0	0	0	0	0	3
95°	26	105	472	164	101	30
105°	108	164	708	1250	1188	114
115°	201	242	537	1137	1335	198
125°	283	314	512	850	1016	253
135°	346	375	506	718	812	267
145°	408	429	510	621	677	255
155°	466	477	522	562	584	216
165°	515	517	528	540	548	145
175°	540	537	535	532	528	51
180°	536	536	536	536	536	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1981.8	1981.8	1981.8	1981.8	1981.8
2.5°	1993.0	1976.6	1981.8	1977.4	1967.8
5°	1987.0	1964.8	1971.3	1966.0	1962.6
7.5°	1966.8	1946.3	1951.1	1945.4	1943.4
10°	1948.6	1928.1	1932.9	1925.8	1922.4
12.5°	1927.7	1905.8	1910.6	1903.5	1901.5
15°	1891.0	1867.1	1870.1	1866.5	1863.1
17.5°	1848.4	1824.2	1824.7	1819.0	1818.4
20°	1817.7	1792.1	1789.7	1782.8	1786.2
22.5°	1784.1	1757.2	1754.8	1745.1	1749.9
25°	1728.6	1699.6	1697.2	1686.8	1692.0
27.5°	1664.4	1635.7	1635.7	1621.2	1626.6
30°	1616.9	1589.6	1592.4	1575.1	1581.9
32.5°	1566.6	1542.0	1543.5	1526.2	1533.1
35°	1485.9	1465.4	1465.0	1451.1	1456.2
37.5°	1403.5	1385.4	1382.5	1374.5	1375.9
40°	1346.2	1330.9	1325.3	1320.0	1320.0
42.5°	1286.2	1272.2	1266.6	1262.7	1261.4
45°	1194.3	1184.1	1178.6	1175.1	1173.4
47.5°	1103.5	1094.0	1089.2	1086.7	1085.0
50°	1040.7	1033.8	1031.9	1026.7	1024.9
52.5°	977.8	973.7	971.9	965.2	963.5
55°	885.3	883.6	885.3	873.0	871.3
57.5°	788.9	791.6	797.3	780.8	776.7
60°	724.6	731.5	738.6	719.2	712.4
62.5°	659.0	669.9	679.9	657.7	648.1
65°	560.5	577.6	588.4	565.3	546.5
67.5°	465.5	486.7	499.7	474.8	453.6
70°	399.9	423.8	438.3	413.3	389.4
72.5°	342.6	369.2	381.0	357.4	333.5
75°	258.4	282.3	296.8	277.0	251.4
77.5°	183.3	205.9	217.9	200.7	179.5
80°	134.4	158.3	167.6	153.3	136.2
82.5°	95.3	115.1	121.5	112.9	101.3
85°	43.7	57.3	64.6	61.0	57.6
87.5°	11.2	20.7	26.5	26.6	27.9
90°	0.0	0.0	0.0	0.0	0.0
92.5°	8.1	43.2	100.2	29.2	22.0
95°	26.5	105.1	472.5	163.5	100.8
97.5°	48.7	123.2	727.7	520.7	356.8
100°	64.2	133.8	783.1	793.2	611.0
102.5°	81.3	145.4	770.8	1015.3	856.2
105°	107.9	163.7	707.7	1250.1	1188.4
107.5°	135.0	185.0	634.0	1316.3	1371.2
110°	153.8	200.6	591.6	1290.9	1414.4

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	171.7	216.1	563.1	1231.0	1407.1
115°	200.6	242.4	536.6	1136.8	1335.0
117.5°	226.1	265.3	521.0	1033.9	1243.7
120°	246.4	279.3	519.3	975.0	1176.1
122.5°	262.7	295.6	515.3	923.4	1110.1
125°	283.1	314.0	512.2	850.0	1016.3
127.5°	305.3	334.2	510.6	806.1	943.1
130°	316.7	345.6	508.1	775.6	895.1
132.5°	328.9	357.0	508.1	751.8	861.7
135°	346.2	375.1	506.1	718.0	811.6
137.5°	362.5	390.6	505.9	689.4	770.2
140°	374.7	403.6	505.1	665.7	743.4
142.5°	388.6	412.7	507.5	646.8	716.5
145°	408.3	429.2	510.2	621.4	677.2
147.5°	425.2	445.6	514.6	595.8	644.0
150°	439.9	453.8	516.3	587.3	621.2
152.5°	451.3	466.0	517.9	575.8	607.3
155°	466.4	477.3	522.4	561.6	584.5
157.5°	485.1	491.7	523.4	555.1	571.5
160°	494.9	499.9	527.5	550.2	564.1
162.5°	500.6	506.4	528.3	546.1	556.8
165°	515.3	517.2	528.5	539.9	547.8
167.5°	525.2	523.4	533.2	538.3	541.5
170°	528.5	527.5	531.5	532.7	536.6
172.5°	535.8	532.4	534.0	531.0	534.2
175°	539.7	536.7	534.6	531.5	527.5
177.5°	541.3	536.5	534.0	530.8	531.5
180°	535.6	535.6	535.6	535.6	535.6

(END OF REPORT)