

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: P562428

Luminaire Tested: **SQ4-PW1-125U-100D-92765-1D-UNV-STD-W-4 (3000K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562428
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-PW1-125U-100D-92765-1D-UNV-STD-W-4 (3000K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

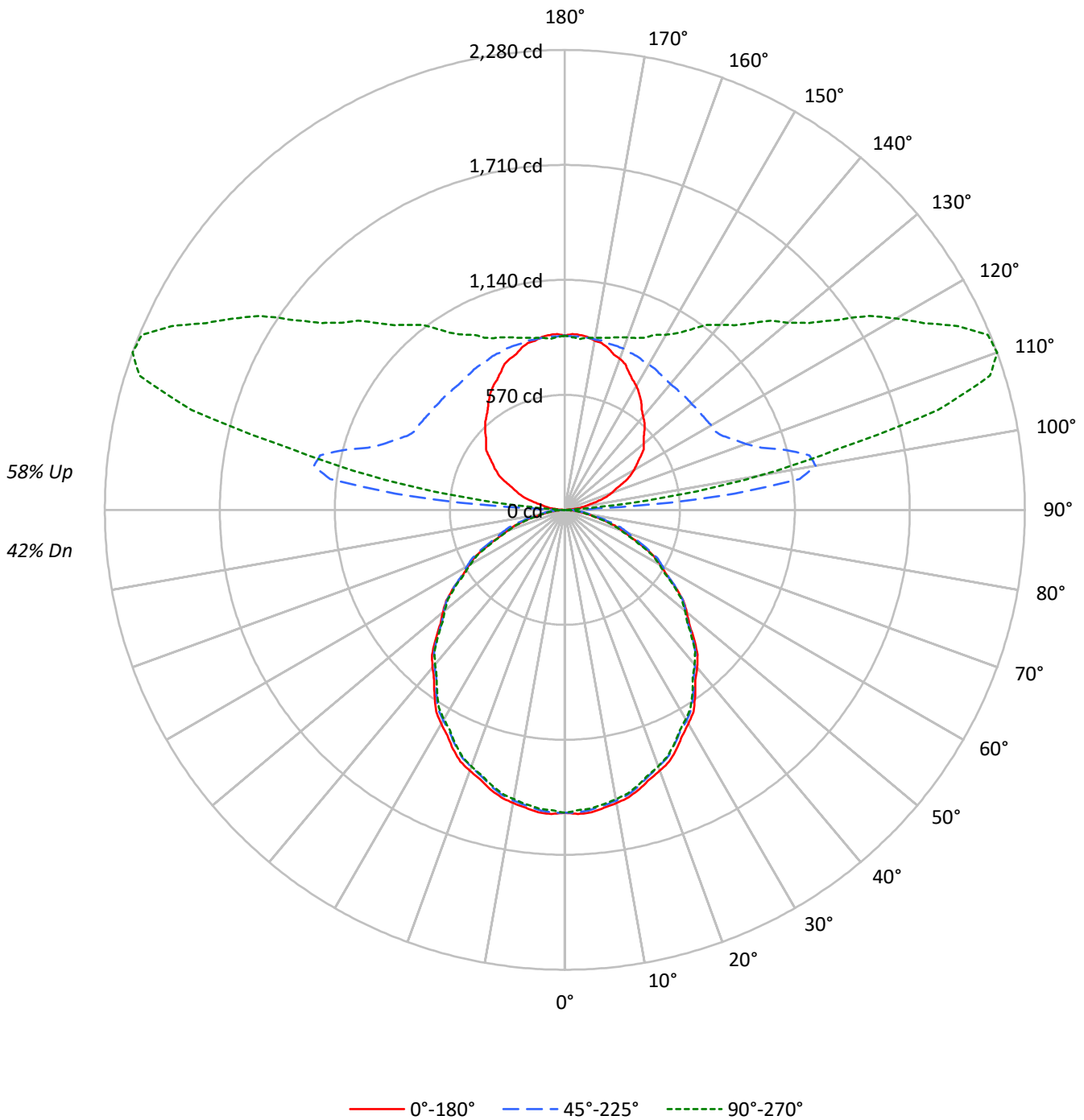
Lumens per Lamp: N/A
Luminaire Lumens: 9182.6 lumens
Efficiency: N/A
Efficacy: 109.4 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 83.9
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	0
RCR																		
0	105	105	105	105	96	96	96	96	79	79	79	63	63	63	48	48	48	42
1	96	92	88	85	87	84	81	78	69	67	65	55	54	53	43	42	41	35
2	87	80	74	69	80	73	68	64	61	57	54	49	46	44	38	36	35	30
3	80	71	63	58	72	65	58	53	53	49	45	43	40	37	34	31	30	25
4	73	62	55	49	66	57	50	45	47	42	38	38	35	32	30	28	25	22
5	67	56	48	42	61	51	44	39	42	37	33	34	31	28	27	24	22	19
6	62	50	42	36	56	46	39	34	38	33	29	31	27	24	25	22	20	16
7	57	45	37	32	52	41	34	29	35	29	25	28	24	21	22	20	17	15
8	53	41	33	28	48	38	31	26	31	26	22	26	22	19	21	18	16	13
9	49	37	30	25	45	34	28	23	29	24	20	24	20	17	19	16	14	12
10	46	34	27	22	42	31	25	21	27	22	18	22	18	15	18	15	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13850	13850	13850
5°	13939	13829	13768
10°	13828	13716	13642
15°	13682	13530	13479
20°	13518	13311	13284
25°	13330	13087	13047
30°	13047	12850	12766
35°	12677	12499	12424
40°	12281	12091	12043
45°	11804	11649	11597
50°	11315	11220	11144
55°	10787	10787	10616
60°	10129	10324	9957
65°	9269	9730	9038
70°	8171	8956	7955
75°	6976	8014	6791
80°	5409	6748	5483
85°	3504	5176	4615



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.4	1.5
10°-20°	399.1	4.3
20°-30°	592.0	6.4
30°-40°	692.7	7.5
40°-50°	689.6	7.5
50°-60°	595.5	6.5
60°-70°	428.6	4.7
70°-80°	224.8	2.4
80°-90°	55.7	0.6
90°-100°	393.4	4.3
100°-110°	1119.5	12.2
110°-120°	1072.5	11.7
120°-130°	848.9	9.2
130°-140°	681.4	7.4
140°-150°	533.4	5.8
150°-160°	390.3	4.3
160°-170°	241.8	2.6
170°-180°	82.0	0.9
0°-30°	1132.4	12.3
0°-40°	1825.1	19.9
0°-60°	3110.2	33.9
0°-90°	3819.4	41.6
90°-120°	2585.4	28.2
90°-150°	4649.1	50.6
90°-180°	5363.0	58.4
0°-180°	9182.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1501	1501	1501	1501	1501	
5°	1505	1488	1493	1489	1487	143
15°	1432	1414	1416	1414	1411	404
25°	1309	1287	1286	1278	1282	602
35°	1126	1110	1110	1099	1103	704
45°	905	897	893	890	889	698
55°	671	669	671	661	660	598
65°	425	438	446	428	414	421
75°	196	214	225	210	190	210
85°	33	43	49	46	44	44
90°	0	0	0	0	0	3
95°	43	170	762	264	162	49
105°	174	264	1141	2015	1916	184
115°	323	391	865	1832	2152	318
125°	456	506	826	1370	1638	408
135°	558	605	816	1157	1308	431
145°	658	692	822	1002	1092	411
155°	752	769	842	905	942	348
165°	831	834	852	870	883	234
175°	870	865	862	857	850	82
180°	863	863	863	863	863	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1501.2	1501.2	1501.2	1501.2	1501.2
2.5°	1509.6	1497.2	1501.2	1497.8	1490.6
5°	1505.1	1488.3	1493.2	1489.2	1486.6
7.5°	1489.8	1474.3	1477.9	1473.6	1472.1
10°	1476.0	1460.5	1464.1	1458.8	1456.2
12.5°	1460.2	1443.6	1447.2	1441.9	1440.3
15°	1432.4	1414.3	1416.5	1413.8	1411.2
17.5°	1400.1	1381.8	1382.1	1377.9	1377.4
20°	1376.8	1357.4	1355.7	1350.5	1353.0
22.5°	1351.4	1331.0	1329.2	1321.9	1325.5
25°	1309.4	1287.4	1285.6	1277.7	1281.6
27.5°	1260.7	1239.0	1239.0	1228.0	1232.1
30°	1224.7	1204.1	1206.2	1193.1	1198.3
32.5°	1186.7	1168.0	1169.2	1156.1	1161.3
35°	1125.5	1110.0	1109.7	1099.2	1103.1
37.5°	1063.1	1049.4	1047.2	1041.2	1042.2
40°	1019.7	1008.1	1003.9	999.9	999.9
42.5°	974.2	963.6	959.4	956.5	955.5
45°	904.7	896.9	892.8	890.1	888.8
47.5°	835.9	828.7	825.0	823.2	821.9
50°	788.3	783.1	781.7	777.7	776.4
52.5°	740.7	737.6	736.2	731.1	729.8
55°	670.6	669.3	670.6	661.3	660.0
57.5°	597.6	599.6	603.9	591.4	588.3
60°	548.9	554.1	559.5	544.8	539.6
62.5°	499.2	507.4	515.0	498.2	491.0
65°	424.6	437.5	445.7	428.2	414.0
67.5°	352.6	368.6	378.5	359.7	343.6
70°	302.9	321.0	332.0	313.0	294.9
72.5°	259.5	279.7	288.6	270.7	252.6
75°	195.7	213.9	224.8	209.9	190.5
77.5°	138.9	155.9	165.1	152.0	136.0
80°	101.8	119.9	127.0	116.1	103.2
82.5°	72.2	87.2	92.1	85.5	76.7
85°	33.1	43.4	48.9	46.2	43.6
87.5°	8.5	15.7	20.1	20.1	21.2
90°	0.0	0.0	0.0	0.0	0.0
92.5°	13.1	69.6	161.5	47.0	35.5
95°	42.7	169.5	761.6	263.6	162.5
97.5°	78.5	198.5	1173.0	839.3	575.2
100°	103.4	215.8	1262.3	1278.6	984.9
102.5°	131.0	234.3	1242.6	1636.6	1380.1
105°	174.0	263.9	1140.8	2015.1	1915.6
107.5°	217.7	298.2	1022.0	2121.8	2210.4
110°	247.9	323.3	953.7	2080.9	2279.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	276.7	348.3	907.7	1984.4	2268.1
115°	323.4	390.8	865.0	1832.5	2151.9
117.5°	364.4	427.6	839.8	1666.5	2004.8
120°	397.2	450.2	837.1	1571.7	1895.9
122.5°	423.5	476.5	830.6	1488.4	1789.5
125°	456.3	506.1	825.6	1370.1	1638.1
127.5°	492.1	538.6	823.0	1299.5	1520.3
130°	510.5	557.0	819.1	1250.2	1442.8
132.5°	530.2	575.4	819.1	1211.8	1389.0
135°	558.1	604.6	815.8	1157.4	1308.2
137.5°	584.3	629.6	815.5	1111.3	1241.6
140°	604.0	650.6	814.2	1073.1	1198.2
142.5°	626.4	665.2	818.1	1042.6	1154.9
145°	658.2	691.9	822.4	1001.7	1091.6
147.5°	685.5	718.2	829.6	960.4	1038.0
150°	709.1	731.6	832.2	946.7	1001.3
152.5°	727.5	751.2	834.8	928.2	978.9
155°	751.8	769.4	842.1	905.3	942.2
157.5°	782.0	792.6	843.7	894.9	921.2
160°	797.7	805.8	850.3	886.9	909.4
162.5°	806.9	816.2	851.6	880.2	897.5
165°	830.6	833.8	851.9	870.3	883.1
167.5°	846.7	843.8	859.5	867.8	872.9
170°	851.9	850.3	856.8	858.6	865.0
172.5°	863.7	858.3	860.8	856.0	861.1
175°	870.0	865.1	861.8	856.7	850.3
177.5°	872.6	864.9	860.8	855.5	856.8
180°	863.4	863.4	863.4	863.4	863.4

(END OF REPORT)