

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: P564758

Luminaire Tested: **SQ4-PW1-075U-075D-940-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564758
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, 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-075D-940-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

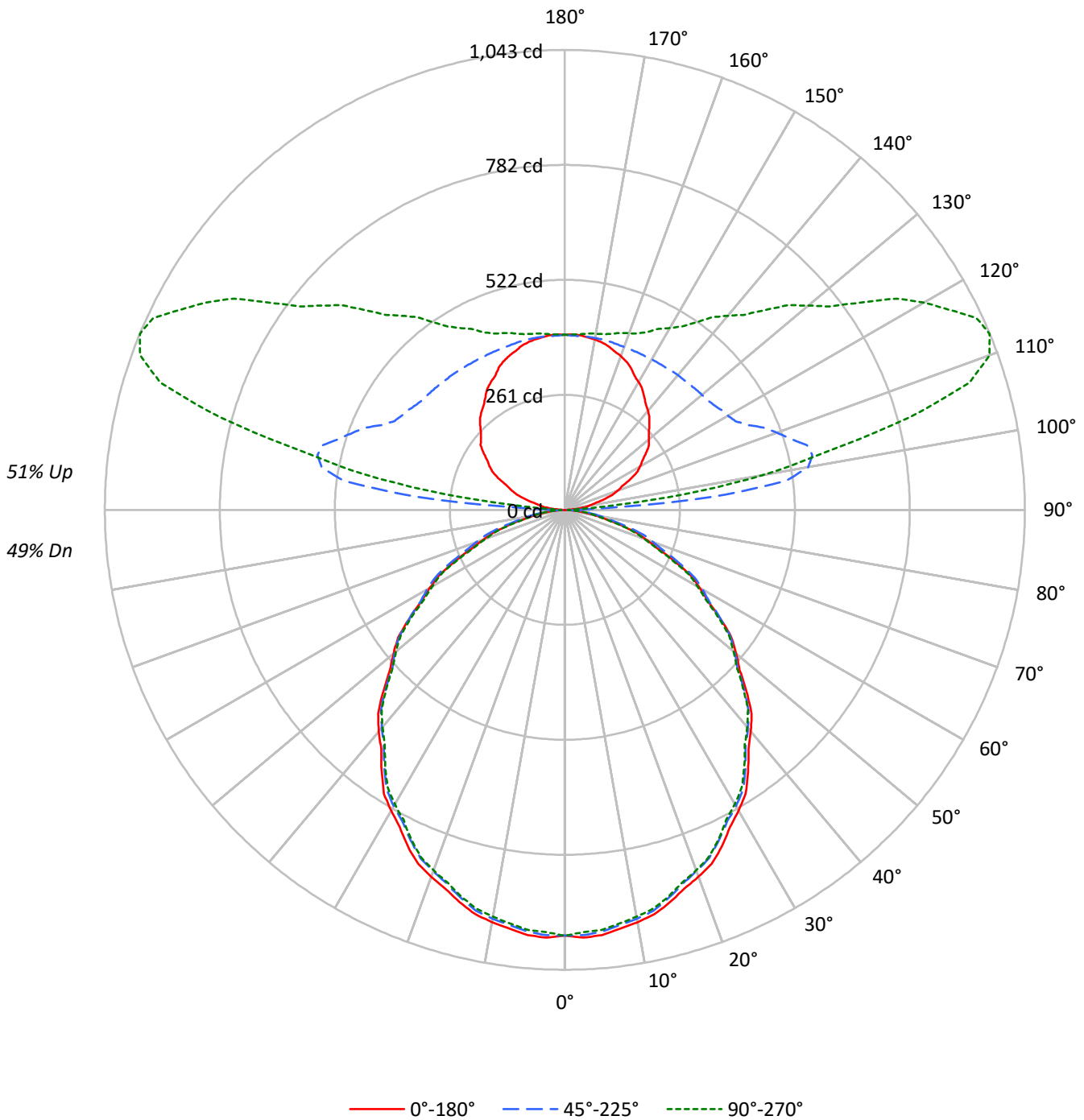
Lumens per Lamp: N/A
Luminaire Lumens: 5045.7 lumens
Efficiency: N/A
Efficacy: 118.7 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 42.5
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	107	107	107	107	98	98	98	98	83	83	83	68	68	68	55	55	55	49
1	98	93	89	86	90	86	83	80	73	70	68	60	59	57	49	48	47	41
2	89	82	75	70	82	75	70	66	64	60	56	53	50	48	43	41	39	35
3	81	72	64	59	74	66	60	55	56	51	48	47	43	40	38	36	34	29
4	74	64	56	50	68	59	52	47	50	45	41	42	38	35	34	31	29	25
5	68	57	49	43	63	52	45	40	45	39	35	37	33	30	31	28	25	22
6	63	51	43	37	58	47	40	35	40	35	30	34	30	26	28	25	22	19
7	58	46	38	32	53	43	36	30	37	31	27	31	26	23	25	22	20	17
8	54	42	34	29	50	39	32	27	33	28	24	28	24	21	23	20	18	15
9	50	38	30	25	46	35	29	24	31	25	21	26	22	19	22	18	16	14
10	47	35	28	23	43	33	26	22	28	23	19	24	20	17	20	17	15	13

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8908	8908	8908
5°	8966	8895	8856
10°	8894	8822	8775
15°	8800	8703	8670
20°	8695	8562	8545
25°	8574	8418	8391
30°	8393	8265	8211
35°	8153	8038	7991
40°	7900	7777	7745
45°	7593	7492	7459
50°	7277	7217	7168
55°	6938	6938	6828
60°	6514	6639	6405
65°	5962	6259	5814
70°	5255	5759	5117
75°	4488	5155	4367
80°	3480	4341	3528
85°	2255	3335	2975



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.9	1.8
10°-20°	256.7	5.1
20°-30°	380.8	7.5
30°-40°	445.5	8.8
40°-50°	443.5	8.8
50°-60°	383.0	7.6
60°-70°	275.7	5.5
70°-80°	144.6	2.9
80°-90°	36.9	0.7
90°-100°	187.4	3.7
100°-110°	515.5	10.2
110°-120°	532.1	10.5
120°-130°	426.3	8.4
130°-140°	334.8	6.6
140°-150°	256.6	5.1
150°-160°	184.5	3.7
160°-170°	112.8	2.2
170°-180°	38.0	0.8
0°-30°	728.4	14.4
0°-40°	1173.9	23.3
0°-60°	2000.5	39.6
0°-90°	2457.6	48.7
90°-120°	1235.0	24.5
90°-150°	2252.7	44.6
90°-180°	2588.0	51.3
0°-180°	5045.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	966	966	966	966	966	
5°	968	957	960	958	956	92
15°	921	910	911	909	908	260
25°	842	828	827	822	824	387
35°	724	714	714	707	710	453
45°	582	577	574	572	572	449
55°	431	430	431	425	424	385
65°	273	281	287	275	266	271
75°	126	138	145	135	122	135
85°	21	28	32	30	28	28
90°	1	3	6	8	8	3
95°	28	102	331	142	90	29
105°	92	142	568	865	807	97
115°	163	199	456	907	1030	161
125°	225	256	413	699	819	201
135°	271	301	402	566	640	209
145°	314	335	396	482	519	197
155°	355	367	393	433	446	163
165°	384	389	395	411	413	108
175°	397	398	396	401	400	38
180°	397	397	397	397	397	

TEST NUMBER: P564758

CATALOG NUMBER: SQ4-PW1-075U-075D-940-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	965.5	965.5	965.5	965.5	965.5
2.5°	971.0	963.0	965.5	963.4	958.7
5°	968.1	957.3	960.4	957.9	956.2
7.5°	958.2	948.3	950.6	947.8	946.8
10°	949.4	939.4	941.7	938.3	936.6
12.5°	939.2	928.5	930.8	927.4	926.4
15°	921.3	909.7	911.1	909.4	907.7
17.5°	900.6	888.7	889.0	886.3	885.9
20°	885.6	873.1	872.0	868.6	870.3
22.5°	869.2	856.1	855.0	850.2	852.6
25°	842.2	828.1	826.9	821.8	824.3
27.5°	810.9	796.9	796.9	789.9	792.5
30°	787.8	774.4	775.8	767.4	770.7
32.5°	763.3	751.3	752.0	743.6	746.9
35°	723.9	714.0	713.7	707.0	709.5
37.5°	683.8	675.0	673.6	669.7	670.4
40°	655.9	648.4	645.7	643.1	643.1
42.5°	626.6	619.8	617.1	615.2	614.5
45°	581.9	576.9	574.2	572.5	571.7
47.5°	537.6	533.0	530.7	529.5	528.6
50°	507.0	503.7	502.8	500.2	499.4
52.5°	476.4	474.4	473.5	470.2	469.4
55°	431.3	430.5	431.3	425.3	424.5
57.5°	384.3	385.7	388.4	380.4	378.4
60°	353.0	356.4	359.8	350.4	347.1
62.5°	321.1	326.4	331.3	320.4	315.8
65°	273.1	281.4	286.7	275.4	266.3
67.5°	226.8	237.1	243.5	231.3	221.0
70°	194.8	206.5	213.5	201.4	189.7
72.5°	166.9	179.9	185.6	174.1	162.5
75°	125.9	137.5	144.6	135.0	122.5
77.5°	89.3	100.3	106.2	97.8	87.5
80°	65.5	77.1	81.7	74.7	66.4
82.5°	46.4	56.1	59.2	55.0	49.3
85°	21.3	27.9	31.5	29.7	28.1
87.5°	5.6	10.8	14.1	14.5	15.1
90°	0.8	3.3	5.9	7.6	7.6
92.5°	11.7	49.8	86.4	33.2	27.2
95°	27.9	102.3	331.3	141.7	90.4
97.5°	45.5	113.4	505.6	389.6	274.9
100°	58.3	120.3	560.4	565.6	461.5
102.5°	70.5	128.5	574.6	701.8	606.2
105°	92.1	141.7	568.0	865.1	807.2
107.5°	112.8	158.0	535.7	945.1	962.2
110°	127.6	169.0	511.4	964.9	1024.5



TEST NUMBER: P564758

CATALOG NUMBER: SQ4-PW1-075U-075D-940-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	141.2	181.2	487.0	952.1	1042.7
115°	163.1	198.7	455.6	907.2	1029.5
117.5°	184.1	216.8	435.6	844.2	982.5
120°	196.9	228.4	426.9	796.9	939.9
122.5°	208.4	239.8	420.8	755.5	891.2
125°	224.8	256.2	413.3	699.2	819.1
127.5°	240.4	270.3	408.4	652.2	757.4
130°	248.5	279.1	405.7	624.3	720.2
132.5°	258.0	288.6	403.7	599.7	686.4
135°	271.3	301.1	401.5	565.5	639.9
137.5°	283.8	311.4	399.6	537.8	599.1
140°	293.3	318.9	399.0	519.4	574.8
142.5°	301.4	325.1	397.6	503.0	550.4
145°	313.6	335.1	395.6	481.8	519.0
147.5°	326.6	345.1	394.6	463.0	492.8
150°	334.7	351.3	393.9	452.7	475.9
152.5°	342.2	357.4	393.2	443.9	463.0
155°	355.0	366.6	393.0	433.1	445.5
157.5°	364.3	373.7	393.0	424.2	432.8
160°	371.1	378.5	393.0	419.4	426.0
162.5°	376.5	382.6	393.7	415.3	420.6
165°	383.7	388.7	394.7	410.9	413.3
167.5°	388.8	392.6	395.6	407.1	407.8
170°	392.2	394.7	395.6	405.7	405.7
172.5°	394.9	396.1	395.6	403.7	403.0
175°	397.3	398.1	395.6	400.6	399.8
177.5°	397.9	397.9	395.2	399.3	397.9
180°	397.3	397.3	397.3	397.3	397.3

(END OF REPORT)