

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: P563245

Luminaire Tested: **SQ4-PP3-025U-100D-940-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563245
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, G2-2103-172-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PP3-025U-100D-940-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

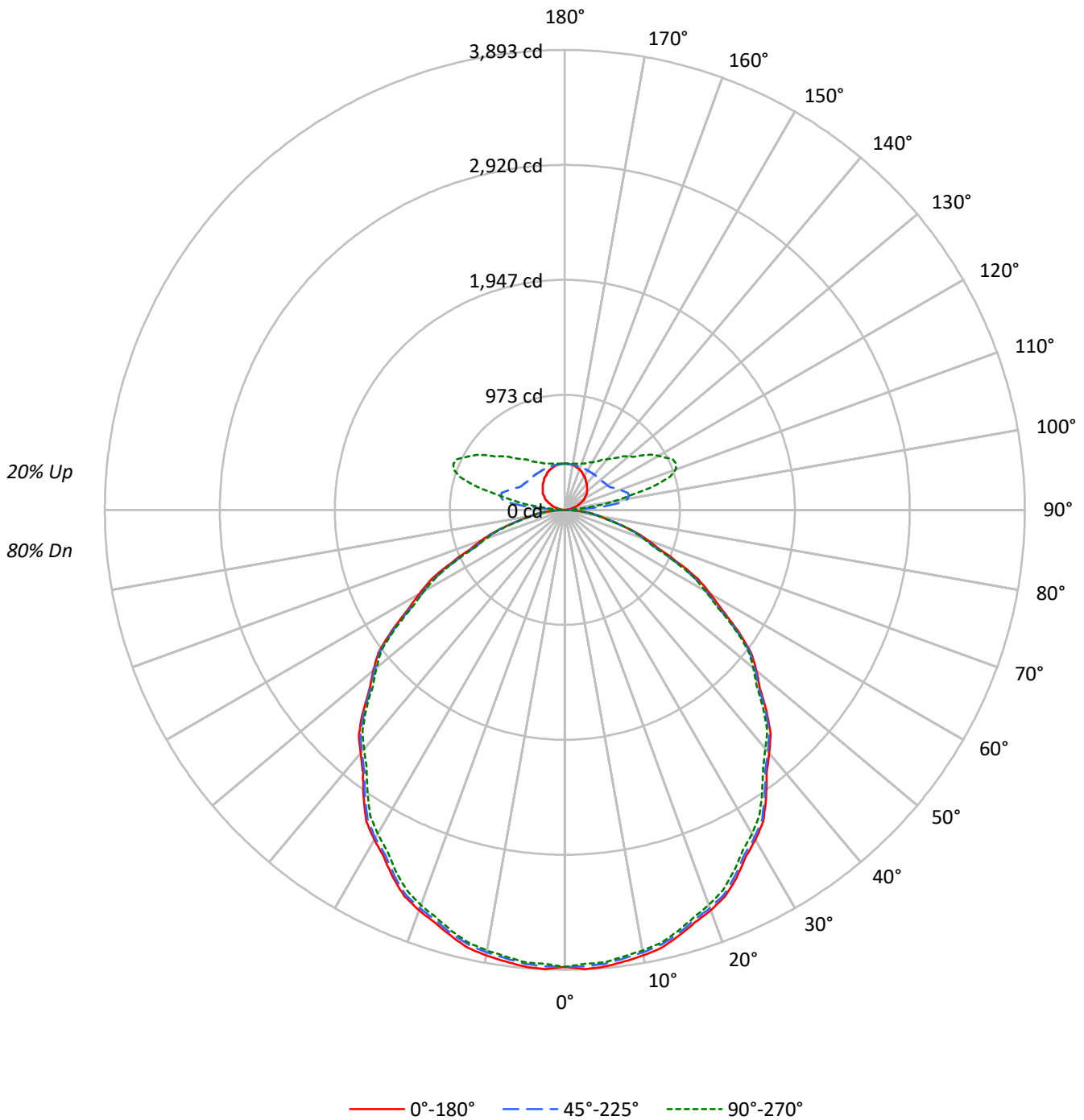
Lumens per Lamp: N/A
Luminaire Lumens: 12432.8 lumens
Efficiency: N/A
Efficacy: 100.6 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 123.6
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	114	114	114	114	109	109	109	109	100	100	100	91	91	91	83	83	83	80
1	105	100	96	93	100	96	93	89	88	85	83	81	79	77	74	73	71	68
2	96	88	82	76	91	84	79	74	78	73	69	71	68	65	66	63	60	57
3	87	78	70	64	83	75	68	62	69	63	59	63	59	55	58	55	52	49
4	80	69	61	55	76	66	59	53	61	55	50	57	52	47	52	48	45	42
5	74	62	53	47	70	59	52	46	55	49	44	51	46	41	47	43	39	36
6	68	56	47	41	65	54	46	40	50	43	38	46	41	36	43	38	34	32
7	63	50	42	36	60	49	41	35	45	39	34	42	36	32	39	34	31	28
8	59	46	38	32	56	44	37	32	41	35	30	39	33	29	36	31	28	25
9	55	42	34	29	52	41	33	28	38	32	27	36	30	26	33	28	25	23
10	51	39	31	26	49	38	30	26	35	29	25	33	28	24	31	26	23	21

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11896	11896	11896
5°	11984	11910	11869
10°	11963	11879	11826
15°	11884	11820	11755
20°	11806	11739	11650
25°	11665	11584	11469
30°	11449	11389	11244
35°	11150	11074	10933
40°	10793	10725	10603
45°	10498	10425	10321
50°	10122	10056	9959
55°	9598	9471	9398
60°	8737	8487	8445
65°	7697	7377	7352
70°	6646	6371	6371
75°	5720	5639	5559
80°	5044	5104	4984
85°	3949	4305	4305



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	365.8	2.9
10°-20°	1044.4	8.4
20°-30°	1564.4	12.6
30°-40°	1834.9	14.8
40°-50°	1840.7	14.8
50°-60°	1570.2	12.6
60°-70°	1024.1	8.2
70°-80°	513.8	4.1
80°-90°	144.3	1.2
90°-100°	190.3	1.5
100°-110°	500.2	4.0
110°-120°	518.7	4.2
120°-130°	416.0	3.3
130°-140°	326.4	2.6
140°-150°	250.5	2.0
150°-160°	180.4	1.5
160°-170°	110.4	0.9
170°-180°	37.3	0.3
0°-30°	2974.6	23.9
0°-40°	4809.5	38.7
0°-60°	8220.4	66.1
0°-90°	9902.6	79.6
90°-120°	1209.1	9.7
90°-150°	2202.1	17.7
90°-180°	2530.0	20.3
0°-180°	12432.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3868	3868	3868	3868	3868	
5°	3882	3845	3858	3844	3844	369
15°	3733	3696	3712	3698	3692	1053
25°	3438	3398	3414	3383	3380	1581
35°	2970	2940	2950	2916	2912	1855
45°	2414	2397	2397	2373	2373	1859
55°	1790	1783	1766	1756	1753	1591
65°	1058	1038	1014	1007	1010	1056
75°	481	481	475	471	468	522
85°	112	122	122	122	122	132
90°	2	7	20	10	10	6
95°	25	98	328	169	115	28
105°	90	137	553	840	783	95
115°	160	194	443	884	1008	158
125°	223	250	403	681	803	198
135°	265	292	390	550	623	205
145°	308	327	385	469	506	193
155°	348	358	385	423	435	160
165°	375	380	385	400	405	106
175°	390	390	388	393	393	37
180°	390	390	390	390	390	

TEST NUMBER: P563245

CATALOG NUMBER: SQ4-PP3-025U-100D-940-1D-UNV-STD-W-12

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3868.2	3868.2	3868.2	3868.2	3868.2
2.5°	3892.6	3860.8	3868.2	3862.4	3846.5
5°	3881.8	3845.3	3858.0	3844.5	3844.5
7.5°	3855.3	3815.5	3828.2	3814.6	3814.0
10°	3830.9	3791.1	3803.8	3790.2	3786.8
12.5°	3795.7	3755.9	3771.2	3755.0	3754.3
15°	3732.6	3696.1	3712.3	3698.5	3691.9
17.5°	3661.4	3621.6	3641.1	3622.0	3619.4
20°	3607.2	3567.4	3586.8	3559.7	3559.7
22.5°	3542.1	3502.3	3524.4	3489.2	3489.2
25°	3437.7	3397.9	3413.9	3383.3	3380.0
27.5°	3313.6	3274.5	3291.2	3256.6	3255.9
30°	3224.1	3187.6	3207.1	3169.8	3166.4
32.5°	3126.4	3092.6	3106.8	3069.4	3066.1
35°	2969.8	2940.0	2949.5	2915.5	2912.2
37.5°	2805.0	2774.5	2785.4	2756.2	2754.9
40°	2688.4	2668.5	2671.5	2647.6	2641.0
42.5°	2579.9	2557.4	2560.3	2536.5	2535.2
45°	2413.8	2397.2	2396.9	2373.1	2373.1
47.5°	2237.5	2224.9	2221.3	2201.6	2200.9
50°	2115.5	2105.5	2101.9	2084.9	2081.6
52.5°	1988.0	1983.4	1971.7	1957.5	1956.8
55°	1790.0	1783.4	1766.3	1756.0	1752.7
57.5°	1575.1	1561.8	1542.5	1527.7	1530.3
60°	1420.5	1407.2	1379.8	1373.0	1373.0
62.5°	1271.3	1255.4	1227.9	1218.6	1223.9
65°	1057.7	1037.9	1013.7	1007.0	1010.3
67.5°	863.8	845.9	819.7	819.7	817.0
70°	739.1	729.1	708.5	708.5	708.5
72.5°	627.9	623.2	608.2	608.1	605.5
75°	481.4	481.4	474.6	471.2	467.8
77.5°	360.7	362.0	358.7	355.2	349.2
80°	284.8	291.4	288.2	284.7	281.4
82.5°	214.3	220.9	220.4	214.2	213.6
85°	111.9	121.8	122.0	122.0	122.0
87.5°	30.3	41.9	47.4	45.5	48.1
90°	2.5	7.4	20.0	10.0	10.0
92.5°	10.5	50.6	112.1	49.6	32.0
95°	25.0	98.4	327.8	168.9	115.1
97.5°	43.5	108.1	490.5	390.0	287.3
100°	57.6	116.3	540.5	547.8	425.4
102.5°	69.6	124.4	554.5	682.3	577.6
105°	90.1	136.6	553.0	839.5	783.3
107.5°	111.1	154.2	521.5	921.2	934.9
110°	125.1	164.3	495.5	942.2	1001.0



TEST NUMBER: P563245

CATALOG NUMBER: SQ4-PP3-025U-100D-940-1D-UNV-STD-W-12

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	139.1	176.3	471.5	928.9	1019.0
115°	160.2	194.4	442.9	883.7	1008.5
117.5°	180.7	212.0	423.4	820.9	959.4
120°	192.7	222.0	415.4	778.8	913.4
122.5°	204.7	234.1	409.4	736.7	869.3
125°	222.7	249.6	402.9	680.9	803.3
127.5°	237.2	264.6	397.4	636.0	739.2
130°	245.2	274.6	395.4	607.8	703.2
132.5°	253.2	282.6	393.4	583.5	669.1
135°	265.3	292.2	390.4	549.7	623.1
137.5°	277.8	304.2	389.9	524.4	584.6
140°	287.8	312.2	387.9	504.3	560.5
142.5°	295.8	318.3	387.9	490.1	538.5
145°	307.8	327.4	385.4	468.8	505.5
147.5°	319.8	338.9	385.4	451.1	481.5
150°	327.8	344.9	385.4	441.0	465.4
152.5°	335.8	349.0	385.4	432.8	451.4
155°	347.8	357.6	385.4	423.2	435.4
157.5°	356.8	366.1	385.4	414.6	423.4
160°	362.8	370.2	385.4	410.5	415.4
162.5°	368.9	374.2	385.4	406.5	411.4
165°	375.4	380.3	385.4	400.5	405.4
167.5°	381.4	383.8	387.9	397.9	399.9
170°	385.4	387.8	387.9	397.9	397.9
172.5°	387.4	387.9	387.9	395.8	393.9
175°	390.4	390.4	387.9	392.9	392.9
177.5°	390.4	390.4	388.4	392.3	390.4
180°	390.4	390.4	390.4	390.4	390.4

(END OF REPORT)