

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: P563878

Luminaire Tested: **SQ4-PR1-025U-075D-835-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563878
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, 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-PR1-025U-075D-835-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

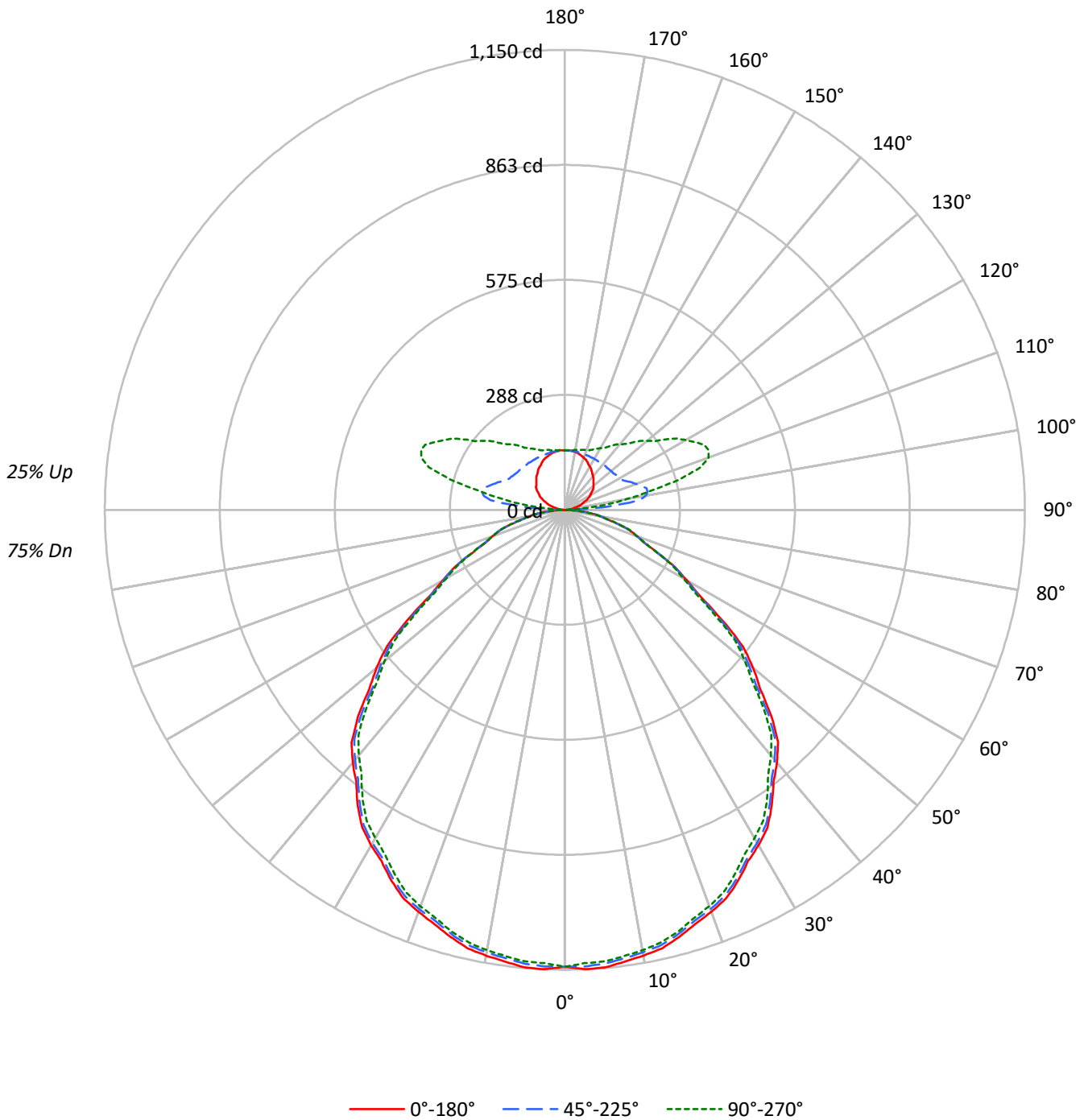
Lumens per Lamp: N/A
Luminaire Lumens: 3822.8 lumens
Efficiency: N/A
Efficacy: 127.9 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 29.9
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	50	30	10	0	
RCR																						
0	113	113	113	113	107	107	107	107	97	97	97	88	88	88	79	79	79	75				
1	104	99	96	92	99	95	91	88	86	83	81	78	76	74	70	69	67	64				
2	95	87	81	76	90	83	78	73	76	71	68	69	65	62	62	60	58	54				
3	87	77	70	64	82	74	67	62	67	62	57	61	57	53	56	52	49	46				
4	80	69	61	54	76	66	58	53	60	54	49	55	50	46	50	46	43	40				
5	73	62	53	47	70	59	51	46	54	48	43	50	44	40	45	41	38	35				
6	68	55	47	41	64	53	46	40	49	43	38	45	40	35	41	37	33	31				
7	63	50	42	36	60	48	41	35	45	38	33	41	36	32	38	33	30	27				
8	58	46	38	32	56	44	37	32	41	34	30	38	32	28	35	30	27	25				
9	55	42	34	29	52	40	33	28	37	31	27	35	29	26	32	27	24	22				
10	51	39	31	26	49	37	30	26	35	29	24	32	27	23	30	25	22	20				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10541	10541	10541
5°	10636	10553	10499
10°	10602	10528	10473
15°	10556	10490	10433
20°	10503	10435	10357
25°	10428	10358	10238
30°	10316	10242	10095
35°	10164	10075	9931
40°	9931	9825	9647
45°	9528	9361	9167
50°	8814	8602	8433
55°	7694	7518	7361
60°	6482	6429	6301
65°	5606	5628	5587
70°	5150	5177	5177
75°	4948	4948	4980
80°	4654	4707	4654
85°	3747	4171	4171



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.0	2.8
10°-20°	309.1	8.1
20°-30°	466.2	12.2
30°-40°	555.5	14.5
40°-50°	547.7	14.3
50°-60°	418.6	10.9
60°-70°	259.0	6.8
70°-80°	147.1	3.8
80°-90°	45.6	1.2
90°-100°	72.6	1.9
100°-110°	190.9	5.0
110°-120°	198.0	5.2
120°-130°	158.8	4.2
130°-140°	124.6	3.3
140°-150°	95.6	2.5
150°-160°	68.9	1.8
160°-170°	42.1	1.1
170°-180°	14.2	0.4
0°-30°	883.4	23.1
0°-40°	1438.9	37.6
0°-60°	2405.2	62.9
0°-90°	2856.9	74.7
90°-120°	461.6	12.1
90°-150°	840.6	22.0
90°-180°	966.0	25.3
0°-180°	3822.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1142	1142	1142	1142	1142	
5°	1148	1136	1140	1136	1134	109
15°	1105	1094	1098	1094	1092	312
25°	1024	1012	1018	1007	1006	471
35°	902	892	894	883	882	563
45°	730	721	717	704	703	559
55°	478	471	467	460	458	429
65°	257	255	258	256	256	260
75°	139	139	139	140	140	147
85°	35	37	39	39	39	41
90°	1	3	8	4	4	2
95°	10	38	125	64	44	11
105°	34	52	211	320	299	36
115°	61	74	169	337	385	60
125°	85	95	154	260	307	75
135°	101	112	149	210	238	78
145°	118	125	147	179	193	74
155°	133	136	147	162	166	61
165°	143	145	147	153	155	40
175°	149	149	148	150	150	14
180°	149	149	149	149	149	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1142.5	1142.5	1142.5	1142.5	1142.5
2.5°	1149.6	1139.6	1142.5	1140.0	1134.6
5°	1148.4	1135.9	1139.5	1135.6	1133.6
7.5°	1139.5	1127.2	1130.9	1126.9	1125.8
10°	1131.7	1120.1	1123.8	1119.8	1117.9
12.5°	1123.0	1110.7	1115.1	1110.4	1108.4
15°	1105.1	1093.6	1098.2	1094.2	1092.3
17.5°	1085.4	1073.1	1077.7	1073.2	1070.7
20°	1069.7	1058.1	1062.8	1055.9	1054.9
22.5°	1052.4	1040.8	1045.5	1036.2	1036.0
25°	1024.4	1011.9	1017.5	1006.7	1005.7
27.5°	991.1	979.6	984.3	973.2	972.1
30°	968.3	956.8	961.4	949.6	947.6
32.5°	942.3	931.6	935.4	923.6	922.5
35°	902.4	891.8	894.5	882.7	881.7
37.5°	856.9	847.3	848.9	835.8	834.9
40°	824.6	815.0	815.8	802.0	801.0
42.5°	789.2	779.6	778.8	765.0	764.0
45°	730.2	720.6	717.4	704.5	702.6
47.5°	662.9	653.2	647.3	636.9	635.5
50°	614.1	604.4	599.3	590.4	587.5
52.5°	561.3	551.7	547.3	539.2	536.3
55°	478.3	470.6	467.4	459.5	457.6
57.5°	399.3	394.1	393.2	385.5	384.8
60°	351.3	348.4	348.4	341.5	341.5
62.5°	310.4	308.3	309.8	305.2	304.5
65°	256.8	254.9	257.8	255.9	255.9
67.5°	214.5	214.5	216.3	215.5	215.5
70°	190.9	190.9	191.9	191.9	191.9
72.5°	169.7	168.9	171.4	171.4	170.6
75°	138.8	138.8	138.8	139.7	139.7
77.5°	108.0	108.2	109.0	108.8	108.0
80°	87.6	88.5	88.6	87.6	87.6
82.5°	67.1	68.1	68.1	67.9	67.1
85°	35.4	37.4	39.4	39.4	39.4
87.5°	10.4	13.9	17.3	16.5	15.7
90°	1.0	2.8	7.6	3.8	3.8
92.5°	4.0	19.3	42.8	19.0	12.2
95°	9.6	37.6	125.1	64.5	43.9
97.5°	16.6	41.3	187.2	148.9	109.7
100°	22.0	44.4	206.3	209.1	162.4
102.5°	26.6	47.5	211.7	260.5	220.5
105°	34.4	52.1	211.1	320.5	299.0
107.5°	42.4	58.9	199.1	351.7	356.9
110°	47.8	62.7	189.1	359.7	382.1

TEST NUMBER: P563878

CATALOG NUMBER: SQ4-PR1-025U-075D-835-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	53.1	67.3	180.0	354.6	389.0
115°	61.1	74.2	169.1	337.3	385.0
117.5°	69.0	80.9	161.6	313.4	366.3
120°	73.6	84.8	158.6	297.3	348.7
122.5°	78.1	89.4	156.3	281.2	331.9
125°	85.0	95.3	153.8	259.9	306.6
127.5°	90.6	101.0	151.7	242.8	282.2
130°	93.6	104.8	150.9	232.0	268.4
132.5°	96.7	107.9	150.2	222.8	255.4
135°	101.3	111.5	149.0	209.8	237.9
137.5°	106.0	116.1	148.8	200.2	223.2
140°	109.9	119.2	148.1	192.5	214.0
142.5°	112.9	121.5	148.1	187.1	205.6
145°	117.5	125.0	147.1	179.0	193.0
147.5°	122.1	129.4	147.1	172.2	183.8
150°	125.1	131.7	147.1	168.3	177.7
152.5°	128.2	133.2	147.1	165.2	172.3
155°	132.8	136.5	147.1	161.5	166.2
157.5°	136.2	139.8	147.1	158.3	161.6
160°	138.5	141.3	147.1	156.7	158.6
162.5°	140.8	142.9	147.1	155.2	157.0
165°	143.3	145.2	147.1	152.9	154.8
167.5°	145.6	146.5	148.1	151.9	152.7
170°	147.1	148.0	148.1	151.9	151.9
172.5°	147.9	148.1	148.1	151.1	150.4
175°	149.0	149.0	148.1	150.0	150.0
177.5°	149.0	149.0	148.3	149.8	149.0
180°	149.0	149.0	149.0	149.0	149.0

(END OF REPORT)