

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: P518999

Luminaire Tested: **SQ4-WB-025U-075D-835-1D-UNV-STD-W-12**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P518999
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, G2-2009-966-13)
Test Lab: INNOVATION CENTER
Issue Date: 4/29/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-WB-025U-075D-835-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

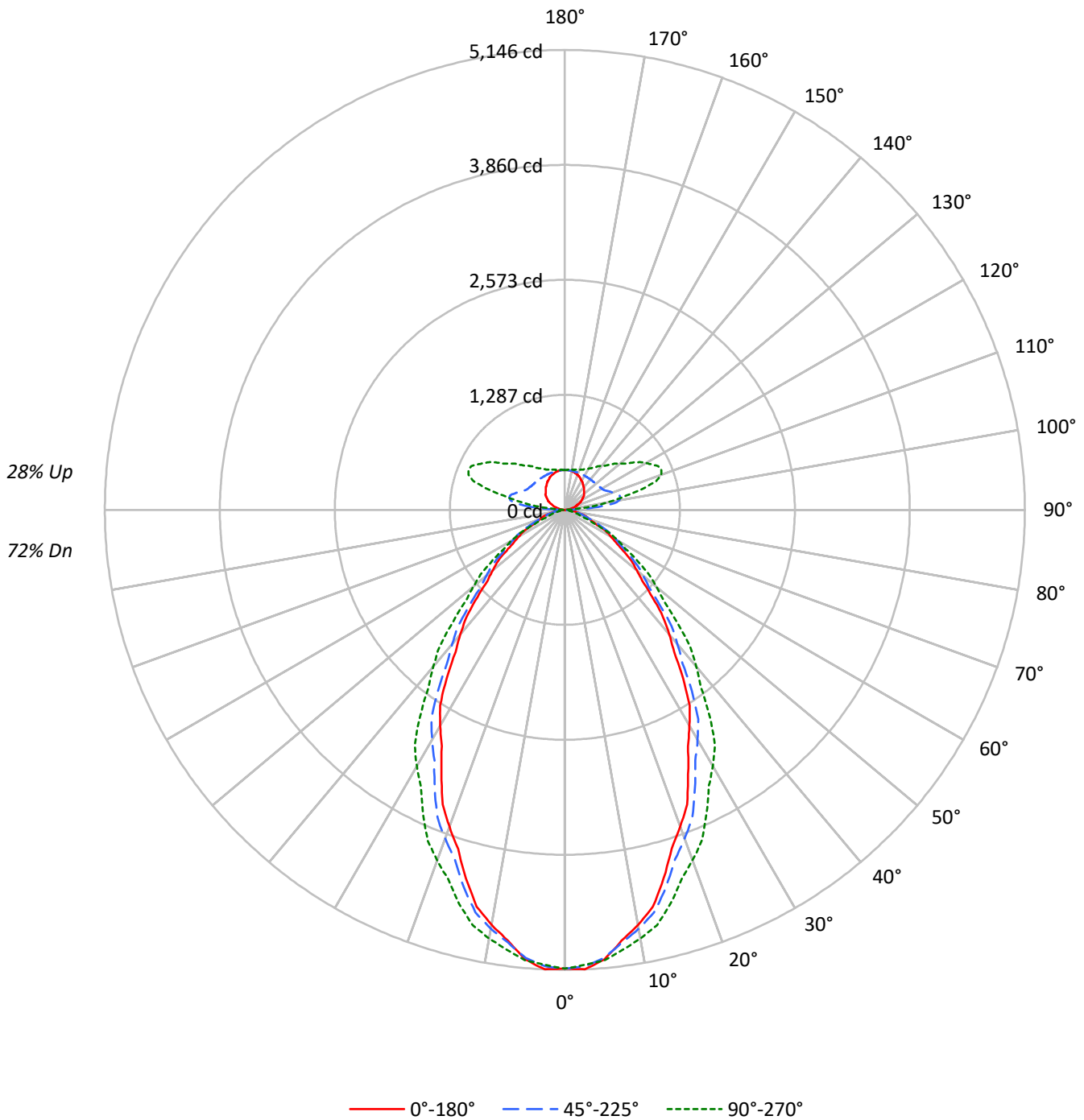
Lumens per Lamp: N/A
Luminaire Lumens: 10380.4 lumens
Efficiency: N/A
Efficacy: 109.5 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 94.8
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	112	112	112	112	107	107	107	107	96	96	96	86	86	86	76	76	76	72
1	104	101	97	94	99	96	93	90	86	84	82	78	76	75	70	69	68	64
2	96	90	84	80	91	86	81	77	78	74	71	70	68	65	64	62	60	56
3	89	81	74	69	85	77	71	66	70	66	62	64	60	57	58	55	53	50
4	83	73	65	60	78	70	63	58	64	58	54	58	54	51	53	50	47	44
5	77	66	58	53	73	63	56	51	58	52	48	53	49	45	49	45	42	40
6	71	60	52	47	68	58	51	46	53	47	43	49	44	41	45	41	38	36
7	67	55	47	42	63	53	46	41	49	43	39	45	40	37	42	38	35	33
8	62	51	43	38	59	49	42	37	45	40	35	42	37	34	39	35	32	30
9	58	47	40	35	56	45	39	34	42	36	32	39	34	31	36	32	29	27
10	55	43	36	32	52	42	35	31	39	34	30	36	32	28	34	30	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15787	15787	15787
5°	15590	15535	15625
10°	14729	14863	15208
15°	13597	13913	14537
20°	12348	12812	13660
25°	11075	11679	12726
30°	9902	10551	11758
35°	8659	9285	10613
40°	7289	7867	9188
45°	6015	6534	7671
50°	5022	5474	6391
55°	4263	4698	5278
60°	3644	4073	4211
65°	2901	3426	2721
70°	2573	2673	1661
75°	2382	2167	1017
80°	2194	1994	878
85°	1987	1828	716



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	470.9	4.5
10°-20°	1224.7	11.8
20°-30°	1586.3	15.3
30°-40°	1553.4	15.0
40°-50°	1189.1	11.5
50°-60°	792.3	7.6
60°-70°	432.4	4.2
70°-80°	180.2	1.7
80°-90°	53.4	0.5
90°-100°	217.9	2.1
100°-110°	572.8	5.5
110°-120°	594.0	5.7
120°-130°	476.5	4.6
130°-140°	373.8	3.6
140°-150°	286.9	2.8
150°-160°	206.7	2.0
160°-170°	126.4	1.2
170°-180°	42.7	0.4
0°-30°	3281.9	31.6
0°-40°	4835.3	46.6
0°-60°	6816.7	65.7
0°-90°	7482.6	72.1
90°-120°	1384.7	13.3
90°-150°	2521.9	24.3
90°-180°	2898.0	27.9
0°-180°	10380.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5133	5133	5133	5133	5133	
5°	5050	4999	5032	5044	5061	470
15°	4271	4255	4370	4489	4566	1193
25°	3264	3273	3442	3592	3750	1501
35°	2306	2318	2473	2640	2827	1434
45°	1383	1409	1502	1616	1764	1079
55°	795	828	876	909	984	721
65°	399	432	471	411	374	414
75°	200	200	182	125	86	214
85°	56	56	52	34	20	61
90°	3	8	23	12	12	5
95°	29	113	375	194	132	32
105°	103	156	633	962	897	109
115°	183	223	507	1012	1155	181
125°	255	286	461	780	920	226
135°	304	335	447	630	714	235
145°	352	375	441	537	579	221
155°	398	410	441	485	499	183
165°	430	436	441	459	464	121
175°	447	447	444	450	450	42
180°	447	447	447	447	447	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5133.3	5133.3	5133.3	5133.3	5133.3
2.5°	5146.0	5100.1	5111.7	5111.4	5097.3
5°	5050.0	4999.3	5032.0	5043.6	5061.3
7.5°	4862.6	4824.3	4883.8	4927.8	4963.5
10°	4716.6	4683.6	4759.4	4823.6	4869.8
12.5°	4547.3	4519.5	4613.5	4699.5	4759.9
15°	4270.7	4255.2	4369.8	4488.6	4565.7
17.5°	3974.7	3967.2	4098.6	4237.3	4336.0
20°	3772.9	3770.7	3914.8	4059.3	4173.8
22.5°	3569.2	3574.1	3725.6	3875.8	4006.2
25°	3263.8	3272.6	3441.8	3591.8	3750.3
27.5°	2981.3	2985.3	3160.2	3318.6	3487.7
30°	2788.5	2799.6	2971.0	3134.9	3311.1
32.5°	2595.7	2608.5	2776.4	2945.8	3125.5
35°	2306.5	2317.5	2473.2	2639.6	2826.8
37.5°	2008.3	2023.3	2161.5	2318.8	2502.9
40°	1815.5	1837.5	1959.6	2107.9	2288.5
42.5°	1629.9	1657.2	1770.4	1911.1	2074.1
45°	1383.0	1409.4	1502.4	1616.1	1763.7
47.5°	1170.4	1200.8	1272.2	1370.1	1496.1
50°	1049.6	1078.3	1144.2	1216.8	1335.7
52.5°	943.3	972.0	1030.7	1086.6	1187.9
55°	795.1	828.2	876.2	909.4	984.3
57.5°	673.5	705.2	743.3	758.3	803.7
60°	592.4	627.6	662.2	660.5	684.7
62.5°	518.5	548.5	582.9	559.1	560.4
65°	398.7	431.7	470.8	411.3	373.9
67.5°	322.1	329.1	369.4	286.9	242.4
70°	286.1	286.1	297.3	222.1	184.7
72.5°	251.8	251.8	241.5	180.7	141.5
75°	200.5	200.5	182.4	125.2	85.6
77.5°	154.5	152.8	139.7	93.4	62.2
80°	123.9	123.9	112.6	73.8	49.6
82.5°	96.9	96.9	87.4	57.6	36.9
85°	56.3	56.3	51.8	33.5	20.3
87.5°	20.4	21.5	22.6	13.1	11.3
90°	2.9	8.5	22.9	11.5	11.5
92.5°	12.0	58.0	128.4	56.9	36.7
95°	28.7	112.7	375.4	193.5	131.8
97.5°	49.9	123.8	561.7	446.7	329.0
100°	65.9	133.2	619.0	627.3	487.2
102.5°	79.7	142.4	635.1	781.4	661.4
105°	103.2	156.4	633.4	961.5	897.0
107.5°	127.2	176.6	597.2	1055.0	1070.7
110°	143.3	188.1	567.4	1079.1	1146.3

TEST NUMBER: P518999

CATALOG NUMBER: SQ4-WB-025U-075D-835-1D-UNV-STD-W-12

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	159.3	201.9	539.9	1063.9	1167.0
115°	183.4	222.6	507.3	1012.0	1154.9
117.5°	206.9	242.8	484.9	940.2	1098.8
120°	220.7	254.3	475.7	891.9	1046.0
122.5°	234.4	268.1	468.9	843.7	995.6
125°	255.1	285.9	461.4	779.8	919.9
127.5°	271.7	303.1	455.1	728.3	846.6
130°	280.9	314.5	452.8	696.0	805.3
132.5°	290.0	323.7	450.5	668.3	766.3
135°	303.8	334.6	447.1	629.5	713.6
137.5°	318.1	348.4	446.5	600.5	669.5
140°	329.6	357.6	444.2	577.5	642.0
142.5°	338.7	364.5	444.2	561.3	616.7
145°	352.5	374.9	441.3	536.9	578.9
147.5°	366.3	388.1	441.3	516.6	551.4
150°	375.4	395.0	441.3	505.0	533.1
152.5°	384.6	399.7	441.3	495.7	517.0
155°	398.4	409.6	441.3	484.6	498.7
157.5°	408.7	419.3	441.3	474.8	484.9
160°	415.5	424.0	441.3	470.1	475.7
162.5°	422.4	428.6	441.3	465.5	471.1
165°	429.9	435.5	441.3	458.7	464.3
167.5°	436.8	439.6	444.2	455.7	458.0
170°	441.3	444.1	444.2	455.7	455.7
172.5°	443.6	444.2	444.2	453.3	451.1
175°	447.1	447.1	444.2	449.9	449.9
177.5°	447.1	447.1	444.8	449.3	447.1
180°	447.1	447.1	447.1	447.1	447.1

(END OF REPORT)