

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P521752

Luminaire Tested: **SQ4-WB-025U-125D-93050-1D-UNV-STD-W-4 (3500K)**

Issue Date: 5/5/2021

Test Information

Test Method: LM-79-08
Report Number: P521752
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-50,
Test Lab: INNOVATION CENTER
Issue Date: 5/5/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-WB-025U-125D-93050-1D-UNV-STD-W-4 (3500K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 3000K/5000K CCT, 90 CRI LEDS, TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

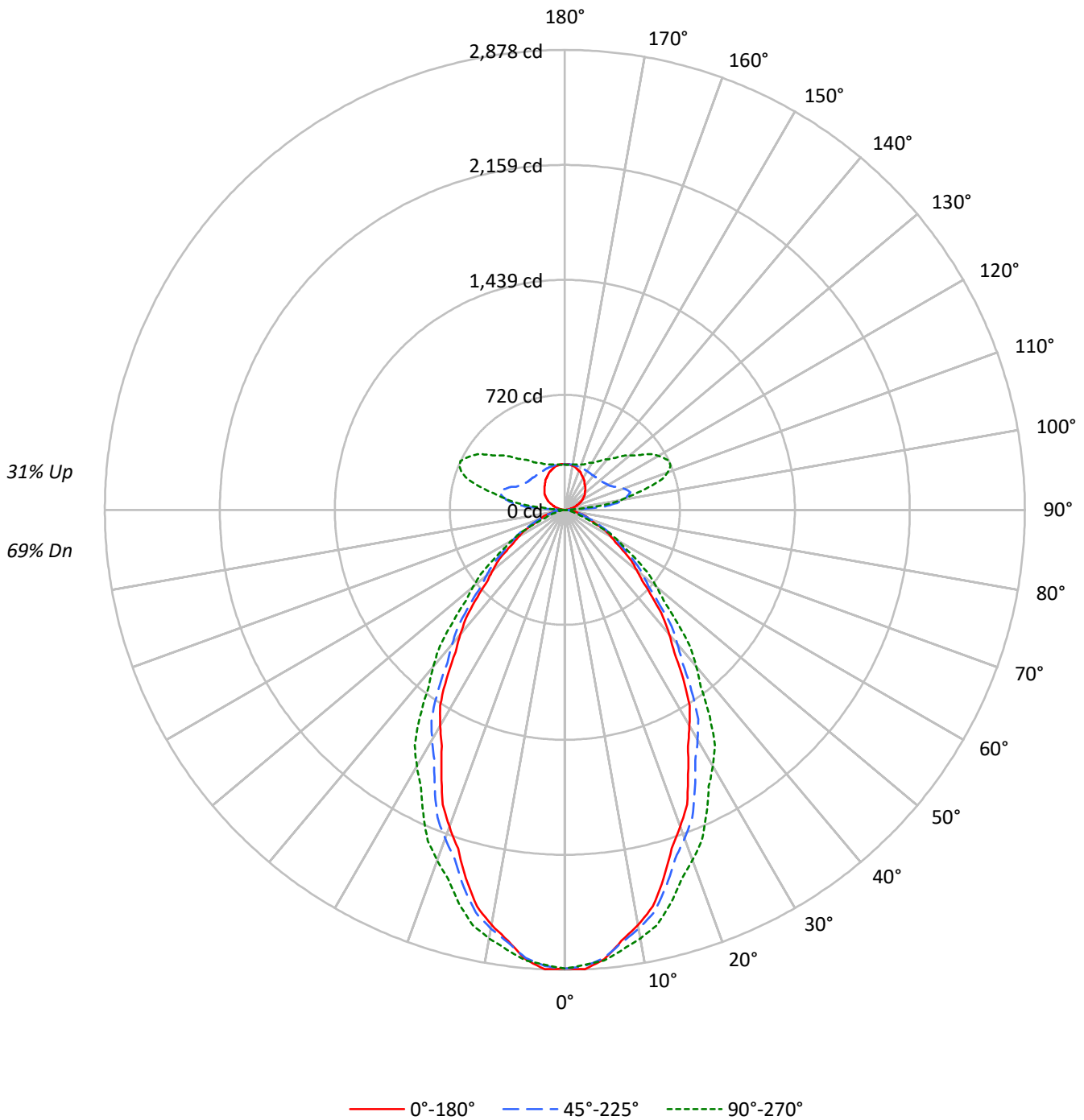
Lumens per Lamp: N/A
Luminaire Lumens: 6018.3 lumens
Efficiency: N/A
Efficacy: 86.1 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 69.9
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	112	112	112	112	106	106	106	106	94	94	94	84	84	84	74	74	74	69				
1	104	100	96	93	98	95	92	89	85	83	81	76	74	73	68	67	66	62				
2	96	89	84	79	91	85	80	76	76	73	70	69	66	64	62	60	58	54				
3	89	80	73	68	84	76	70	65	69	64	61	62	59	56	56	54	51	48				
4	82	72	65	59	78	69	62	57	63	57	53	57	53	49	52	48	46	43				
5	76	65	58	52	72	62	56	51	57	52	47	52	48	44	47	44	41	38				
6	71	59	52	46	67	57	50	45	52	47	42	48	43	40	44	40	37	35				
7	66	54	47	42	63	52	45	41	48	42	38	44	39	36	40	37	34	32				
8	62	50	43	38	59	48	41	37	44	39	35	41	36	33	38	34	31	29				
9	58	46	39	34	55	44	38	33	41	36	32	38	33	30	35	31	28	26				
10	54	43	36	31	52	41	35	31	38	33	29	36	31	28	33	29	26	24				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	26483	26483	26483
5°	26152	26059	26211
10°	24709	24932	25511
15°	22809	23339	24385
20°	20714	21492	22915
25°	18578	19591	21348
30°	16612	17699	19725
35°	14526	15576	17804
40°	12227	13198	15413
45°	10090	10961	12868
50°	8424	9183	10721
55°	7152	7880	8853
60°	6111	6833	7065
65°	4866	5746	4565
70°	4316	4486	2787
75°	3996	3636	1708
80°	3682	3347	1472
85°	3335	3070	1196



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	263.3	4.4
10°-20°	684.8	11.4
20°-30°	887.0	14.7
30°-40°	868.6	14.4
40°-50°	664.9	11.0
50°-60°	443.0	7.4
60°-70°	241.8	4.0
70°-80°	100.7	1.7
80°-90°	28.5	0.5
90°-100°	146.1	2.4
100°-110°	353.2	5.9
110°-120°	376.7	6.3
120°-130°	305.1	5.1
130°-140°	236.2	3.9
140°-150°	180.2	3.0
150°-160°	130.4	2.2
160°-170°	80.3	1.3
170°-180°	27.2	0.5
0°-30°	1835.1	30.5
0°-40°	2703.7	44.9
0°-60°	3811.7	63.3
0°-90°	4182.7	69.5
90°-120°	876.1	14.6
90°-150°	1597.6	26.5
90°-180°	1836.0	30.5
0°-180°	6018.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2870	2870	2870	2870	2870	
5°	2824	2796	2814	2820	2830	263
15°	2388	2379	2443	2510	2553	667
25°	1825	1830	1924	2008	2097	839
35°	1290	1296	1383	1476	1581	802
45°	773	788	840	904	986	603
55°	445	463	490	508	550	403
65°	223	241	263	230	209	232
75°	112	112	102	70	48	120
85°	32	32	29	19	11	34
90°	0	0	0	0	0	2
95°	14	73	250	163	114	16
105°	56	98	424	549	542	60
115°	103	132	341	647	721	102
125°	147	169	296	514	604	131
135°	181	202	284	406	466	140
145°	214	230	279	345	372	134
155°	245	256	282	305	316	113
165°	271	275	286	290	294	76
175°	286	285	286	284	283	27
180°	283	283	283	283	283	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2870.4	2870.4	2870.4	2870.4	2870.4
2.5°	2877.5	2851.8	2858.3	2858.1	2850.3
5°	2823.8	2795.5	2813.7	2820.3	2830.1
7.5°	2719.0	2697.6	2730.9	2755.5	2775.4
10°	2637.4	2618.9	2661.3	2697.2	2723.0
12.5°	2542.7	2527.2	2579.7	2627.8	2661.6
15°	2388.0	2379.4	2443.4	2509.9	2553.0
17.5°	2222.5	2218.3	2291.8	2369.4	2424.5
20°	2109.7	2108.4	2189.0	2269.8	2333.9
22.5°	1995.8	1998.5	2083.2	2167.2	2240.2
25°	1825.0	1829.9	1924.5	2008.4	2097.1
27.5°	1667.1	1669.3	1767.1	1855.6	1950.2
30°	1559.3	1565.4	1661.3	1752.9	1851.5
32.5°	1451.5	1458.6	1552.5	1647.2	1747.7
35°	1289.7	1295.9	1382.9	1476.0	1580.7
37.5°	1123.0	1131.3	1208.6	1296.6	1399.6
40°	1015.2	1027.5	1095.8	1178.7	1279.7
42.5°	911.4	926.6	990.0	1068.6	1159.8
45°	773.3	788.1	840.1	903.7	986.2
47.5°	654.4	671.4	711.4	766.1	836.6
50°	586.9	602.9	639.8	680.4	746.9
52.5°	527.5	543.5	576.3	607.6	664.3
55°	444.6	463.1	489.9	508.5	550.4
57.5°	376.6	394.3	415.6	424.0	449.4
60°	331.2	351.0	370.3	369.3	382.9
62.5°	289.9	306.7	326.0	312.6	313.4
65°	222.9	241.4	263.2	230.0	209.1
67.5°	180.1	184.0	206.6	160.4	135.5
70°	160.0	160.0	166.3	124.2	103.3
72.5°	140.8	140.8	135.0	101.0	79.1
75°	112.1	112.1	102.0	70.0	47.9
77.5°	86.4	85.4	78.1	52.2	34.8
80°	69.3	69.3	63.0	41.3	27.7
82.5°	54.2	54.2	48.9	32.2	20.7
85°	31.5	31.5	29.0	18.7	11.3
87.5°	11.1	11.1	10.1	6.0	5.0
90°	0.0	0.0	0.0	0.0	0.0
92.5°	4.8	39.6	93.2	45.3	30.7
95°	14.4	73.1	250.4	162.8	114.1
97.5°	25.6	81.0	329.8	317.7	272.7
100°	34.2	85.9	373.5	394.3	357.3
102.5°	42.4	90.3	402.3	458.0	436.0
105°	56.4	97.5	424.5	549.3	542.2
107.5°	70.3	106.1	411.4	622.4	639.0
110°	79.9	113.3	390.3	654.0	685.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	89.5	120.6	371.6	661.7	714.9
115°	103.3	132.0	341.1	646.6	721.1
117.5°	117.0	144.1	323.2	611.8	699.2
120°	126.1	151.3	311.6	584.5	676.1
122.5°	135.7	159.1	304.4	556.6	646.8
125°	147.1	169.4	296.0	514.2	604.1
127.5°	158.4	179.4	290.1	478.3	557.2
130°	165.1	185.7	288.2	453.3	530.8
132.5°	171.4	192.9	285.3	435.3	501.0
135°	180.7	201.9	284.0	405.5	466.5
137.5°	189.6	210.9	279.8	385.3	431.4
140°	196.3	215.7	279.8	370.8	413.1
142.5°	203.1	222.4	277.4	358.2	393.9
145°	213.8	229.6	278.6	344.7	371.7
147.5°	223.7	239.1	277.9	329.1	351.4
150°	230.0	243.5	279.8	322.2	339.9
152.5°	236.7	249.7	279.3	315.0	330.7
155°	245.0	255.6	282.2	305.3	316.4
157.5°	255.0	264.0	281.6	301.6	308.2
160°	258.8	266.4	284.0	296.7	301.4
162.5°	265.0	271.7	283.1	295.2	298.1
165°	270.8	274.9	285.8	290.1	294.2
167.5°	277.9	280.6	285.1	289.8	289.9
170°	279.8	281.6	287.0	286.5	289.4
172.5°	283.2	284.5	285.6	286.9	285.1
175°	286.4	285.2	286.4	284.0	283.4
177.5°	285.8	285.8	284.9	283.8	281.5
180°	283.4	283.4	283.4	283.4	283.4

(END OF REPORT)