

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: P519188

Luminaire Tested: **SQ4-WB-075U-075D-830-1D-UNV-STD-W-4**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519188
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, 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-075U-075D-830-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

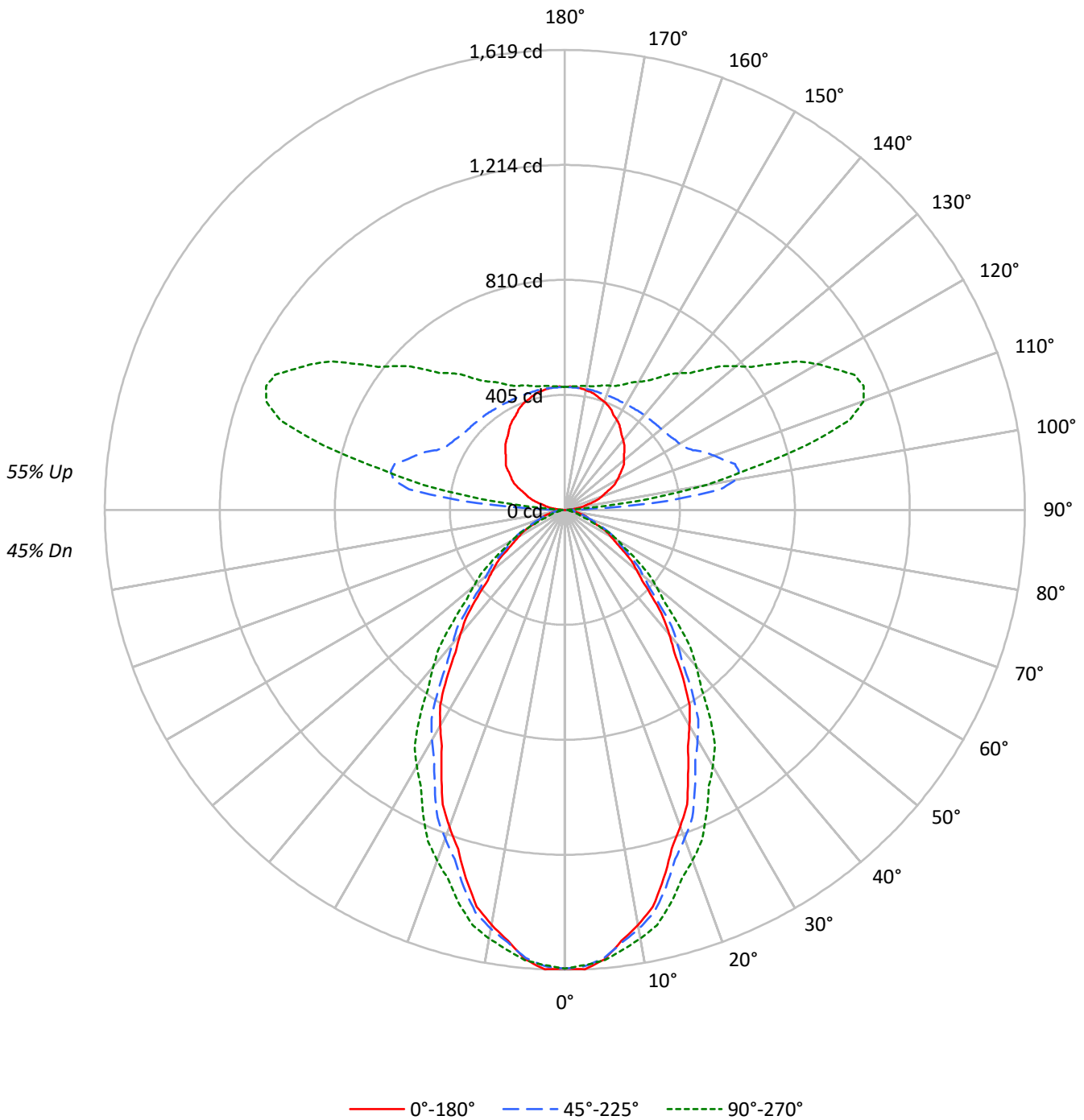
Lumens per Lamp: N/A
Luminaire Lumens: 5180.4 lumens
Efficiency: N/A
Efficacy: 121.9 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

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				
RC	80					70					50					30				
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																				
0	106	106	106	106	97	97	97	97	81	81	81	66	66	66	52	52	52	45		
1	98	94	90	87	90	86	83	81	72	70	68	59	58	57	47	47	46	40		
2	90	83	78	73	82	77	72	68	65	61	58	53	51	49	43	42	40	36		
3	83	74	67	62	76	69	63	58	58	54	50	48	45	43	39	37	36	31		
4	76	66	59	54	70	61	55	50	52	48	44	44	40	38	36	34	32	28		
5	70	60	52	47	65	55	49	44	47	42	39	40	36	33	33	30	28	25		
6	65	54	47	41	60	50	44	39	43	38	34	36	33	30	30	28	26	23		
7	61	49	42	37	56	46	39	35	39	34	31	34	30	27	28	25	23	21		
8	56	45	38	33	52	42	36	31	36	31	28	31	27	24	26	23	21	19		
9	53	41	34	29	49	39	32	28	34	29	25	29	25	22	24	21	19	17		
10	49	38	31	27	46	36	30	25	31	26	23	27	23	20	23	20	18	16		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14901	14901	14901
5°	14716	14663	14748
10°	13903	14029	14354
15°	12835	13133	13721
20°	11655	12093	12893
25°	10454	11024	12012
30°	9347	9959	11099
35°	8174	8764	10017
40°	6880	7426	8672
45°	5677	6168	7240
50°	4741	5167	6033
55°	4025	4435	4982
60°	3440	3845	3975
65°	2738	3233	2567
70°	2428	2522	1567
75°	2249	2046	959
80°	2072	1881	829
85°	1874	1725	677



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.1	2.9
10°-20°	385.3	7.4
20°-30°	499.1	9.6
30°-40°	488.8	9.4
40°-50°	374.1	7.2
50°-60°	249.3	4.8
60°-70°	136.0	2.6
70°-80°	56.7	1.1
80°-90°	17.2	0.3
90°-100°	204.6	3.9
100°-110°	562.9	10.9
110°-120°	581.0	11.2
120°-130°	465.5	9.0
130°-140°	365.6	7.1
140°-150°	280.2	5.4
150°-160°	201.4	3.9
160°-170°	123.2	2.4
170°-180°	41.5	0.8
0°-30°	1032.6	19.9
0°-40°	1521.3	29.4
0°-60°	2144.8	41.4
0°-90°	2354.6	45.5
90°-120°	1348.4	26.0
90°-150°	2459.7	47.5
90°-180°	2826.0	54.6
0°-180°	5180.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1615	1615	1615	1615	1615	
5°	1589	1573	1583	1587	1592	148
15°	1344	1339	1375	1412	1436	375
25°	1027	1030	1083	1130	1180	472
35°	726	729	778	830	889	451
45°	435	444	473	508	555	339
55°	250	261	276	286	310	227
65°	125	136	148	129	118	130
75°	63	63	57	39	27	67
85°	18	18	16	10	6	19
90°	1	4	6	8	8	3
95°	30	112	362	155	99	32
105°	101	155	620	944	881	106
115°	178	217	497	990	1124	176
125°	246	280	451	763	894	219
135°	296	329	438	617	699	229
145°	342	366	432	526	567	215
155°	388	400	429	473	486	178
165°	419	424	431	449	451	118
175°	434	435	432	437	436	41
180°	434	434	434	434	434	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1615.1	1615.1	1615.1	1615.1	1615.1
2.5°	1619.1	1604.7	1608.3	1608.2	1603.8
5°	1588.9	1572.9	1583.2	1586.9	1592.4
7.5°	1529.9	1517.9	1536.6	1550.4	1561.7
10°	1484.0	1473.6	1497.5	1517.6	1532.2
12.5°	1430.7	1422.0	1451.5	1478.6	1497.6
15°	1343.7	1338.8	1374.9	1412.3	1436.5
17.5°	1250.6	1248.2	1289.5	1333.2	1364.2
20°	1187.1	1186.4	1231.7	1277.2	1313.2
22.5°	1123.0	1124.5	1172.2	1219.5	1260.5
25°	1026.9	1029.7	1082.9	1130.1	1180.0
27.5°	938.0	939.3	994.3	1044.1	1097.3
30°	877.4	880.8	934.8	986.3	1041.8
32.5°	816.7	820.7	873.5	926.8	983.4
35°	725.7	729.2	778.1	830.5	889.4
37.5°	631.9	636.6	680.1	729.6	787.5
40°	571.2	578.1	616.6	663.2	720.0
42.5°	512.8	521.4	557.0	601.3	652.6
45°	435.1	443.5	472.7	508.5	554.9
47.5°	368.2	377.8	400.3	431.1	470.7
50°	330.3	339.3	360.0	382.8	420.3
52.5°	296.8	305.8	324.3	341.9	373.8
55°	250.2	260.6	275.7	286.1	309.7
57.5°	211.9	221.9	233.9	238.6	252.9
60°	186.4	197.5	208.4	207.8	215.4
62.5°	163.1	172.6	183.4	175.9	176.3
65°	125.4	135.8	148.1	129.4	117.6
67.5°	101.3	103.6	116.2	90.3	76.3
70°	90.0	90.0	93.5	69.9	58.1
72.5°	79.2	79.2	76.0	56.8	44.5
75°	63.1	63.1	57.4	39.4	26.9
77.5°	48.6	48.1	43.9	29.4	19.6
80°	39.0	39.0	35.4	23.2	15.6
82.5°	30.5	30.5	27.5	18.1	11.6
85°	17.7	17.7	16.3	10.5	6.4
87.5°	6.4	7.0	7.0	5.1	4.5
90°	0.9	3.6	6.5	8.3	8.3
92.5°	12.7	54.4	94.3	36.2	29.7
95°	30.5	111.7	361.8	154.7	98.8
97.5°	49.7	123.8	552.1	425.4	300.1
100°	63.7	131.4	611.9	617.6	503.9
102.5°	77.0	140.3	627.4	766.2	661.9
105°	100.6	154.7	620.2	944.5	881.4
107.5°	123.1	172.6	584.9	1031.9	1050.6
110°	139.4	184.5	558.4	1053.6	1118.6

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	154.1	197.8	531.8	1039.6	1138.5
115°	178.1	216.9	497.4	990.5	1124.1
117.5°	201.0	236.7	475.7	921.7	1072.8
120°	215.0	249.3	466.1	870.2	1026.3
122.5°	227.6	261.9	459.4	824.9	973.1
125°	245.5	279.8	451.3	763.4	894.3
127.5°	262.5	295.1	445.9	712.1	826.9
130°	271.3	304.7	443.0	681.6	786.3
132.5°	281.7	315.1	440.8	654.8	749.4
135°	296.3	328.7	438.4	617.4	698.6
137.5°	309.9	340.1	436.3	587.2	654.2
140°	320.2	348.2	435.6	567.1	627.6
142.5°	329.1	354.9	434.1	549.2	601.0
145°	342.4	365.9	431.9	526.1	566.7
147.5°	356.6	376.8	430.8	505.6	538.1
150°	365.5	383.5	430.1	494.3	519.6
152.5°	373.6	390.2	429.3	484.6	505.6
155°	387.6	400.3	429.2	472.8	486.4
157.5°	397.8	408.1	429.2	463.1	472.5
160°	405.2	413.3	429.2	457.9	465.1
162.5°	411.1	417.7	429.9	453.5	459.2
165°	419.0	424.4	431.0	448.6	451.3
167.5°	424.5	428.7	431.9	444.5	445.2
170°	428.2	430.9	431.9	443.0	443.0
172.5°	431.2	432.4	431.9	440.8	440.0
175°	433.8	434.7	431.9	437.4	436.5
177.5°	434.5	434.5	431.6	435.9	434.5
180°	433.8	433.8	433.8	433.8	433.8

(END OF REPORT)