

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: P521729

Luminaire Tested: **SQ4-WB-025U-075D-93050-1D-UNV-STD-W-4 (5000K)**

Issue Date: 5/5/2021

Test Information

Test Method: LM-79-08
Report Number: P521729
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-075D-93050-1D-UNV-STD-W-4 (5000K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 3000K/5000K CCT, 90 CRI LEDS, TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

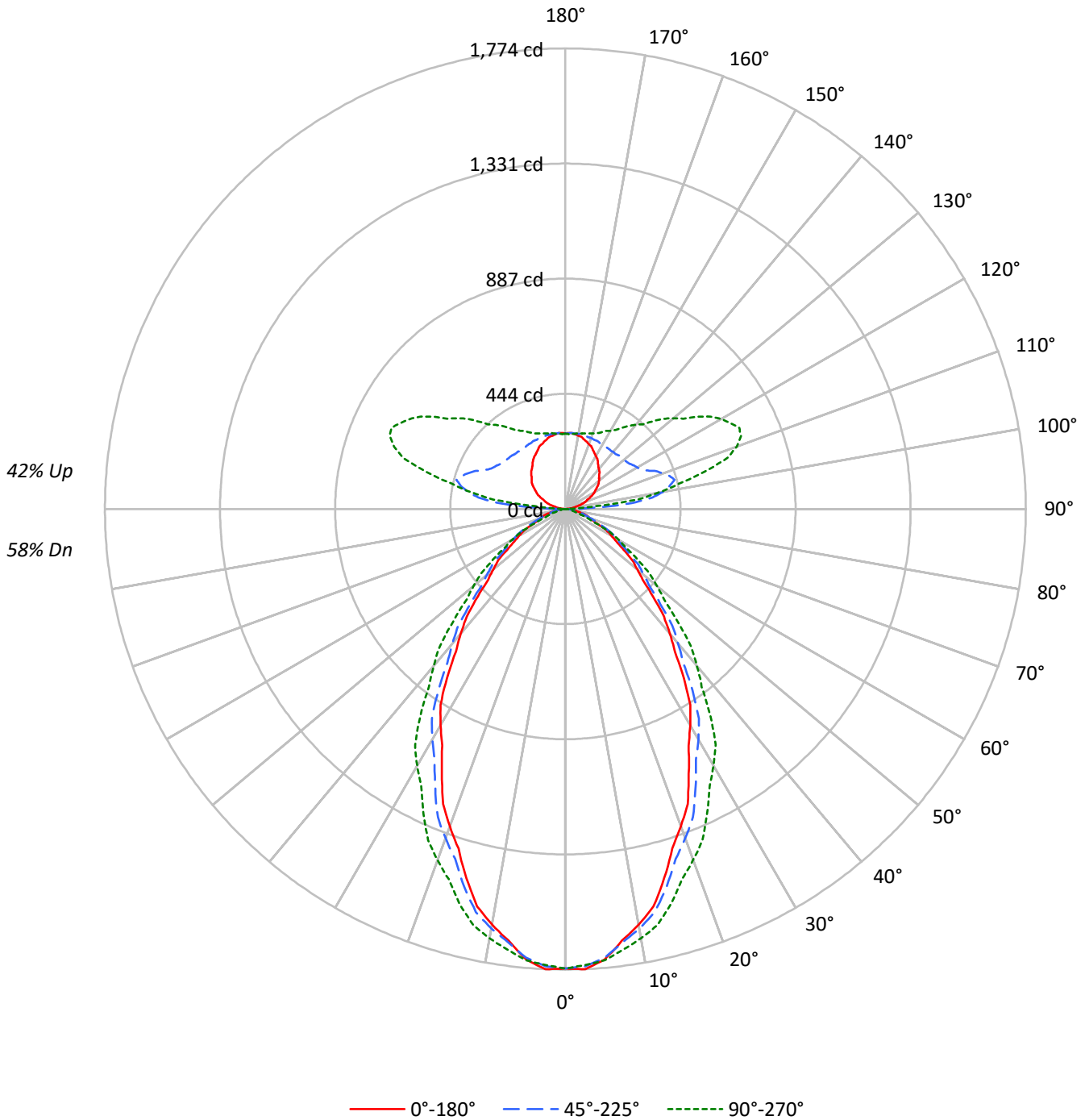
Lumens per Lamp: N/A
Luminaire Lumens: 4460.2 lumens
Efficiency: N/A
Efficacy: 97.4 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 45.8
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	109	109	109	109	102	102	102	102	88	88	88	75	75	75	63	63	63	58
1	101	97	94	90	94	91	88	85	79	77	75	68	66	65	58	57	56	51
2	93	86	81	76	87	81	76	72	71	67	64	61	59	57	53	51	49	45
3	86	77	70	65	80	72	67	62	64	59	56	56	52	50	48	46	44	40
4	79	69	62	57	74	65	59	54	58	53	49	51	47	44	44	41	39	36
5	73	63	55	50	68	59	52	47	52	47	43	46	42	39	40	37	35	32
6	68	57	49	44	64	54	47	42	48	42	38	42	38	35	37	34	31	29
7	63	52	44	39	59	49	42	38	44	39	35	39	35	32	34	31	29	26
8	59	48	40	35	55	45	39	34	40	35	31	36	32	29	32	29	26	24
9	55	44	37	32	52	42	35	31	37	32	29	34	29	26	30	26	24	22
10	52	41	34	29	49	39	32	28	35	30	26	31	27	24	28	25	22	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16330	16330	16330
5°	16127	16070	16163
10°	15236	15375	15732
15°	14066	14391	15037
20°	12773	13253	14131
25°	11457	12081	13165
30°	10243	10913	12163
35°	8958	9605	10978
40°	7540	8138	9504
45°	6223	6759	7934
50°	5195	5662	6611
55°	4411	4859	5459
60°	3770	4213	4357
65°	3002	3543	2814
70°	2660	2765	1718
75°	2463	2242	1052
80°	2269	2062	909
85°	2054	1895	741



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	162.4	3.6
10°-20°	422.3	9.5
20°-30°	547.0	12.3
30°-40°	535.6	12.0
40°-50°	410.0	9.2
50°-60°	273.2	6.1
60°-70°	149.1	3.3
70°-80°	62.1	1.4
80°-90°	17.6	0.4
90°-100°	149.8	3.4
100°-110°	361.9	8.1
110°-120°	386.0	8.7
120°-130°	312.7	7.0
130°-140°	242.1	5.4
140°-150°	184.7	4.1
150°-160°	133.7	3.0
160°-170°	82.3	1.8
170°-180°	27.9	0.6
0°-30°	1131.6	25.4
0°-40°	1667.3	37.4
0°-60°	2350.5	52.7
0°-90°	2579.2	57.8
90°-120°	897.7	20.1
90°-150°	1637.1	36.7
90°-180°	1881.0	42.2
0°-180°	4460.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1770	1770	1770	1770	1770	
5°	1741	1724	1735	1739	1745	162
15°	1473	1467	1507	1548	1574	411
25°	1125	1128	1187	1238	1293	518
35°	795	799	853	910	975	494
45°	477	486	518	557	608	372
55°	274	286	302	314	339	249
65°	138	149	162	142	129	143
75°	69	69	63	43	30	74
85°	19	19	18	12	7	21
90°	0	0	0	0	0	2
95°	15	75	257	167	117	17
105°	58	100	435	563	556	61
115°	106	135	350	663	739	105
125°	151	174	303	527	619	135
135°	185	207	291	416	478	143
145°	219	235	286	353	381	137
155°	251	262	289	313	324	116
165°	278	282	293	297	302	78
175°	294	292	294	291	290	28
180°	290	290	290	290	290	

TEST NUMBER: P521729

CATALOG NUMBER: SQ4-WB-025U-075D-93050-1D-UNV-STD-W-4 (5000K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1770.0	1770.0	1770.0	1770.0	1770.0
2.5°	1774.4	1758.6	1762.6	1762.5	1757.6
5°	1741.3	1723.8	1735.1	1739.1	1745.2
7.5°	1676.7	1663.5	1684.0	1699.2	1711.5
10°	1626.3	1615.0	1641.1	1663.2	1679.2
12.5°	1567.9	1558.4	1590.8	1620.4	1641.3
15°	1472.6	1467.2	1506.7	1547.7	1574.3
17.5°	1370.5	1367.9	1413.2	1461.1	1495.1
20°	1300.9	1300.2	1349.8	1399.7	1439.2
22.5°	1230.7	1232.4	1284.6	1336.4	1381.4
25°	1125.4	1128.4	1186.7	1238.5	1293.2
27.5°	1028.0	1029.4	1089.7	1144.3	1202.6
30°	961.5	965.3	1024.4	1080.9	1141.7
32.5°	895.0	899.4	957.3	1015.7	1077.7
35°	795.3	799.1	852.8	910.2	974.7
37.5°	692.5	697.6	745.3	799.5	863.0
40°	626.0	633.6	675.7	726.8	789.1
42.5°	562.0	571.4	610.5	659.0	715.2
45°	476.9	486.0	518.0	557.3	608.1
47.5°	403.6	414.0	438.7	472.4	515.9
50°	361.9	371.8	394.5	419.6	460.6
52.5°	325.3	335.1	355.4	374.7	409.6
55°	274.2	285.6	302.1	313.6	339.4
57.5°	232.2	243.2	256.3	261.5	277.1
60°	204.3	216.4	228.3	227.8	236.1
62.5°	178.8	189.1	201.0	192.8	193.2
65°	137.5	148.9	162.3	141.8	128.9
67.5°	111.1	113.5	127.4	98.9	83.6
70°	98.6	98.6	102.5	76.6	63.7
72.5°	86.8	86.8	83.3	62.3	48.8
75°	69.1	69.1	62.9	43.2	29.5
77.5°	53.3	52.7	48.2	32.2	21.4
80°	42.7	42.7	38.8	25.4	17.1
82.5°	33.4	33.4	30.1	19.9	12.7
85°	19.4	19.4	17.9	11.5	7.0
87.5°	6.8	6.8	6.2	3.7	3.1
90°	0.0	0.0	0.0	0.0	0.0
92.5°	4.9	40.5	95.5	46.4	31.5
95°	14.8	74.9	256.6	166.8	116.9
97.5°	26.2	83.0	337.9	325.6	279.5
100°	35.1	88.0	382.7	404.0	366.1
102.5°	43.4	92.5	412.2	469.3	446.8
105°	57.8	100.0	435.0	562.8	555.6
107.5°	72.0	108.7	421.6	637.8	654.8
110°	81.8	116.1	399.9	670.2	702.1

TEST NUMBER: P521729

CATALOG NUMBER: SQ4-WB-025U-075D-93050-1D-UNV-STD-W-4 (5000K)

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	91.7	123.6	380.7	678.1	732.6
115°	105.8	135.3	349.5	662.6	739.0
117.5°	119.9	147.7	331.2	626.9	716.4
120°	129.2	155.1	319.3	599.0	692.8
122.5°	139.1	163.0	312.0	570.4	662.8
125°	150.7	173.6	303.3	526.9	619.0
127.5°	162.3	183.9	297.3	490.1	571.0
130°	169.2	190.3	295.3	464.5	543.9
132.5°	175.6	197.6	292.4	446.0	513.4
135°	185.2	206.9	291.0	415.5	478.1
137.5°	194.3	216.1	286.7	394.9	442.0
140°	201.2	221.1	286.7	380.0	423.3
142.5°	208.1	227.9	284.3	367.1	403.6
145°	219.0	235.3	285.5	353.2	380.9
147.5°	229.3	245.0	284.8	337.2	360.1
150°	235.7	249.5	286.7	330.2	348.3
152.5°	242.5	255.9	286.2	322.8	338.9
155°	251.0	261.9	289.2	312.8	324.3
157.5°	261.3	270.5	288.6	309.0	315.8
160°	265.2	273.0	291.0	304.1	308.9
162.5°	271.6	278.4	290.0	302.5	305.4
165°	277.5	281.7	292.9	297.3	301.5
167.5°	284.8	287.5	292.1	296.9	297.1
170°	286.7	288.5	294.1	293.6	296.6
172.5°	290.2	291.5	292.6	293.9	292.1
175°	293.5	292.3	293.5	291.0	290.4
177.5°	292.9	292.9	291.9	290.9	288.5
180°	290.4	290.4	290.4	290.4	290.4

(END OF REPORT)