

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: P520985

Luminaire Tested: **SQ4-BB-025U-050D-93050-1D-UNV-STD-W-4 (3500K)**

Issue Date: 5/5/2021

Test Information

Test Method: LM-79-08
Report Number: P520985
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-BB-025U-050D-93050-1D-UNV-STD-W-4 (3500K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH BLACK BAFFLE
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 3000K/5000K CCT, 90 CRI LEDS, TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

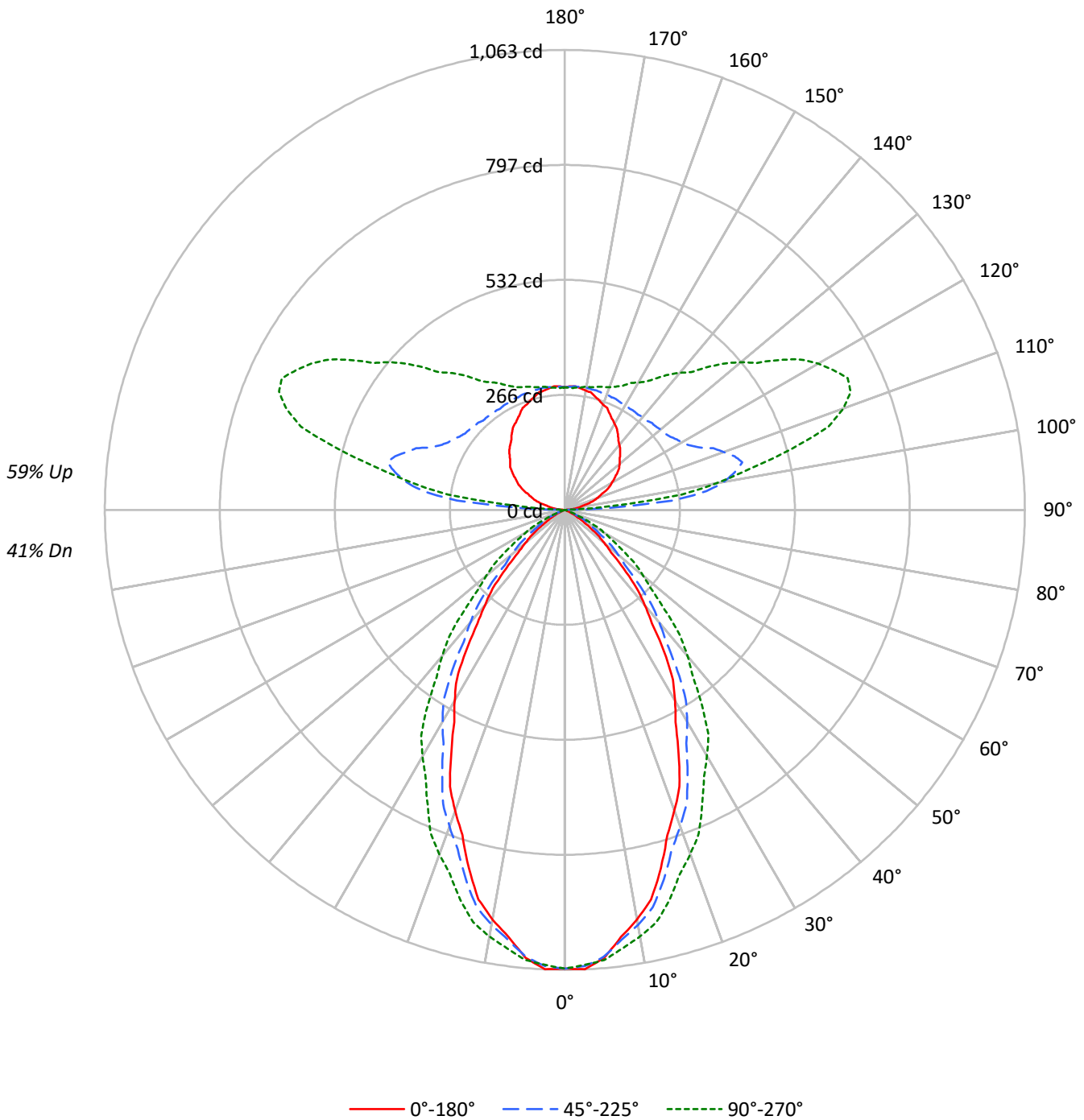
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3100.6 lumens
Efficiency: N/A
Efficacy: 88.1 lumens/watt
Spacing Criteria (0/90/45): 0.85 / 0.97 / 0.97
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 35.2
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	105	105	105	105	96	96	96	96	78	78	78	62	62	62	48	48	48	41
1	97	93	90	87	89	86	83	80	71	69	67	57	56	55	44	44	43	37
2	90	83	78	74	82	77	72	68	64	61	58	52	50	48	41	40	39	34
3	83	75	68	63	76	69	63	59	58	54	51	47	45	42	38	36	35	30
4	77	67	60	55	70	62	56	51	52	48	44	43	40	38	35	33	31	27
5	71	61	53	48	65	56	50	45	47	43	39	39	36	34	32	30	28	25
6	66	55	48	43	60	51	45	40	43	39	35	36	33	30	30	27	26	23
7	61	50	43	38	56	47	40	36	40	35	32	34	30	28	28	25	23	21
8	57	46	39	34	52	43	37	32	37	32	29	31	28	25	26	23	22	19
9	53	42	35	31	49	39	33	29	34	29	26	29	25	23	24	22	20	18
10	50	39	32	28	46	36	31	27	32	27	24	27	24	21	23	20	18	17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9783	9783	9783
5°	9626	9602	9674
10°	9007	9127	9382
15°	8189	8447	8918
20°	7269	7647	8316
25°	6330	6831	7640
30°	5422	6017	7001
35°	4495	5108	6229
40°	3454	4084	5308
45°	2497	3092	4271
50°	1701	2305	3387
55°	1105	1666	2633
60°	635	1174	1902
65°	168	716	963
70°	84	221	278
75°	36	18	0
80°	27	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.8	3.1
10°-20°	247.5	8.0
20°-30°	309.8	10.0
30°-40°	286.2	9.2
40°-50°	192.3	6.2
50°-60°	99.3	3.2
60°-70°	31.1	1.0
70°-80°	2.0	0.1
80°-90°	0.0	0.0
90°-100°	146.1	4.7
100°-110°	353.2	11.4
110°-120°	376.7	12.1
120°-130°	305.1	9.8
130°-140°	236.2	7.6
140°-150°	180.2	5.8
150°-160°	130.4	4.2
160°-170°	80.3	2.6
170°-180°	27.2	0.9
0°-30°	654.1	21.1
0°-40°	940.2	30.3
0°-60°	1231.9	39.7
0°-90°	1265.0	40.8
90°-120°	876.1	28.3
90°-150°	1597.6	51.5
90°-180°	1836.0	59.2
0°-180°	3100.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1060	1060	1060	1060	1060	
5°	1039	1029	1037	1040	1044	96
15°	857	854	884	914	934	239
25°	622	627	671	717	750	285
35°	399	409	454	507	553	247
45°	191	203	237	283	327	150
55°	69	80	104	133	164	64
65°	8	15	33	40	44	13
75°	1	1	0	0	0	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	1
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°	1060.4	1060.4	1060.4	1060.4	1060.4
2.5°	1062.9	1052.8	1055.5	1055.4	1052.6
5°	1039.4	1028.8	1036.8	1040.5	1044.5
7.5°	995.5	987.2	1002.5	1014.0	1022.3
10°	961.4	954.4	974.2	989.9	1001.4
12.5°	922.0	916.6	940.6	962.0	976.8
15°	857.3	854.2	884.4	914.1	933.7
17.5°	787.9	787.8	822.3	859.1	882.7
20°	740.3	741.8	778.8	819.4	847.0
22.5°	692.7	696.2	735.7	778.0	809.6
25°	621.8	626.8	671.0	716.9	750.5
27.5°	553.7	561.0	607.5	655.2	696.2
30°	508.9	517.4	564.8	615.0	657.2
32.5°	465.0	475.1	521.3	574.4	617.4
35°	399.1	409.2	453.5	506.9	553.0
37.5°	331.1	340.9	384.3	436.8	486.7
40°	286.8	297.8	339.1	390.0	440.7
42.5°	246.6	257.6	296.4	346.5	394.3
45°	191.4	202.9	237.0	283.2	327.3
47.5°	145.6	158.1	188.1	229.8	270.1
50°	118.5	131.0	160.6	197.4	236.0
52.5°	96.8	108.9	135.5	170.2	205.6
55°	68.7	80.3	103.6	133.1	163.7
57.5°	47.5	57.4	78.4	102.9	126.9
60°	34.4	43.9	63.6	83.6	103.1
62.5°	22.9	31.6	50.9	66.2	79.3
65°	7.7	14.7	32.8	39.6	44.1
67.5°	3.9	4.7	17.2	18.2	19.7
70°	3.1	3.1	8.2	8.8	10.3
72.5°	2.3	2.3	3.3	4.2	4.5
75°	1.0	1.0	0.5	0.0	0.0
77.5°	0.5	0.5	0.4	0.0	0.0
80°	0.5	0.5	0.0	0.0	0.0
82.5°	0.1	0.1	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
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)