

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: P518528

Luminaire Tested: **SQ4-BB-075U-075D-930-1D-UNV-STD-W-4**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P518528
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, G2-2009-966-12)
Test Lab: INNOVATION CENTER
Issue Date: 4/29/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-BB-075U-075D-930-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH BLACK BAFFLE
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

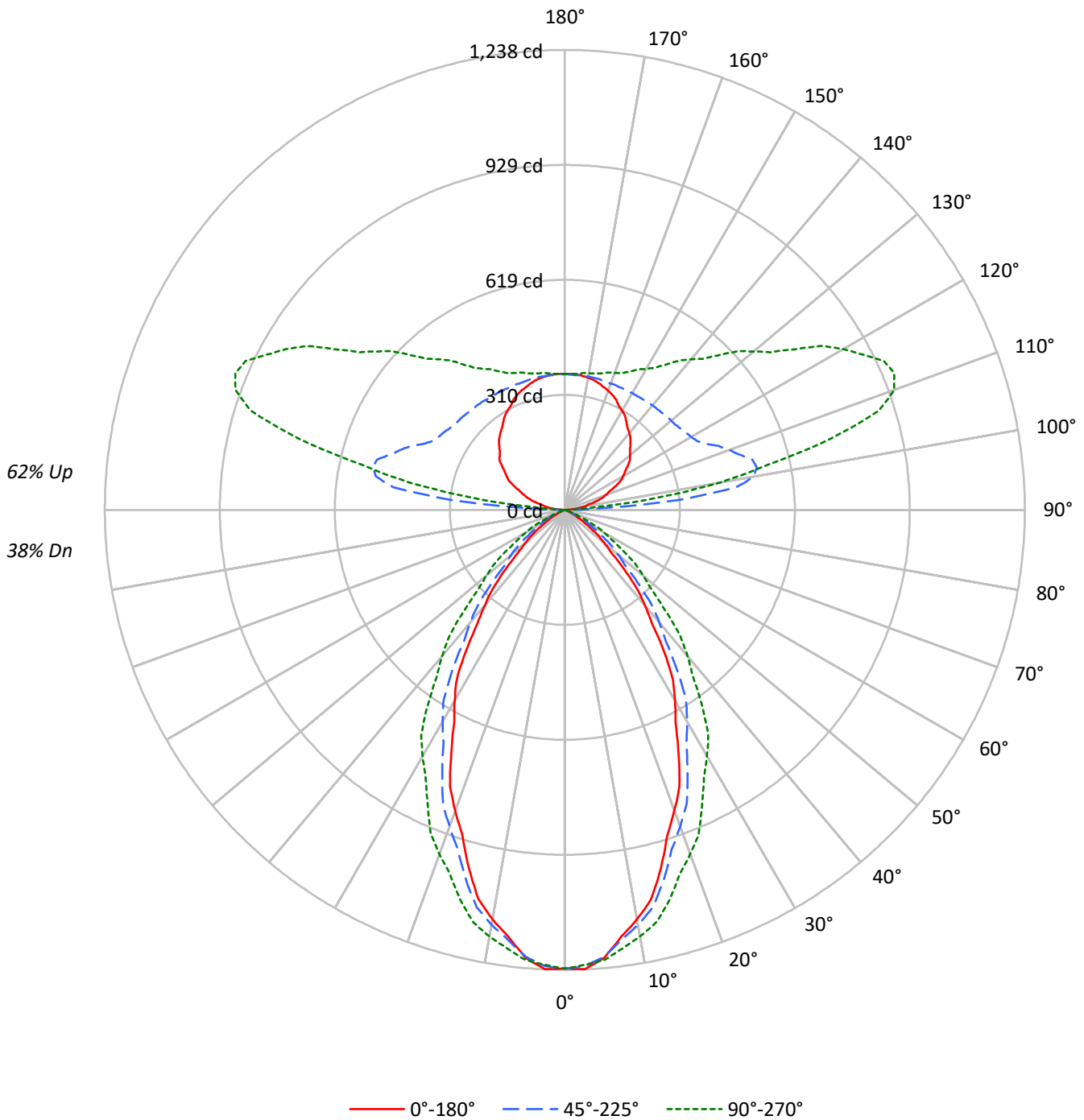
Lumens per Lamp: N/A
Luminaire Lumens: 3856.3 lumens
Efficiency: N/A
Efficacy: 90.7 lumens/watt
Spacing Criteria (0/90/45): 0.85 / 0.97 / 0.97
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

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					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	104	104	104	104	95	95	95	95	77	77	77	60	60	60	45	45	45	38				
1	96	93	89	86	88	85	82	79	69	67	66	55	54	53	42	41	41	35				
2	89	83	77	73	81	76	71	67	62	59	57	50	48	46	39	38	37	32				
3	82	74	68	62	75	68	62	58	56	52	49	46	43	41	36	34	33	28				
4	76	66	59	54	69	61	55	50	51	47	43	42	39	36	33	31	30	26				
5	70	60	53	47	64	55	49	44	46	42	38	38	35	32	30	28	27	23				
6	65	54	47	42	59	50	44	39	42	38	34	35	32	29	28	26	24	21				
7	60	49	42	37	55	46	39	35	39	34	31	32	29	26	26	24	22	20				
8	56	45	38	33	52	42	36	31	36	31	28	30	26	24	24	22	20	18				
9	53	42	35	30	48	39	33	28	33	28	25	28	24	22	23	20	19	17				
10	49	38	32	27	45	36	30	26	31	26	23	26	23	20	21	19	17	15				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11393	11393	11393
5°	11210	11182	11265
10°	10489	10629	10926
15°	9535	9837	10386
20°	8464	8904	9684
25°	7371	7955	8897
30°	6313	7008	8153
35°	5235	5948	7253
40°	4023	4756	6181
45°	2907	3601	4974
50°	1981	2684	3944
55°	1288	1942	3066
60°	738	1367	2216
65°	196	834	1122
70°	97	259	321
75°	43	21	0
80°	32	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.7	2.9
10°-20°	288.2	7.5
20°-30°	360.8	9.4
30°-40°	333.3	8.6
40°-50°	223.9	5.8
50°-60°	115.7	3.0
60°-70°	36.2	0.9
70°-80°	2.3	0.1
80°-90°	1.0	0.0
90°-100°	172.5	4.5
100°-110°	474.5	12.3
110°-120°	489.8	12.7
120°-130°	392.4	10.2
130°-140°	308.2	8.0
140°-150°	236.2	6.1
150°-160°	169.8	4.4
160°-170°	103.8	2.7
170°-180°	35.0	0.9
0°-30°	761.7	19.8
0°-40°	1094.9	28.4
0°-60°	1434.5	37.2
0°-90°	1474.0	38.2
90°-120°	1136.8	29.5
90°-150°	2073.6	53.8
90°-180°	2382.0	61.8
0°-180°	3856.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1235	1235	1235	1235	1235	
5°	1210	1198	1207	1212	1216	112
15°	998	995	1030	1064	1087	278
25°	724	730	781	835	874	332
35°	465	476	528	590	644	288
45°	223	236	276	330	381	175
55°	80	94	121	155	191	75
65°	9	17	38	46	51	15
75°	1	1	1	0	0	2
85°	0	0	0	0	0	0
90°	1	3	5	7	7	2
95°	26	94	305	130	83	27
105°	85	130	523	796	743	89
115°	150	183	419	835	948	148
125°	207	236	380	644	754	185
135°	250	277	370	520	589	193
145°	289	308	364	444	478	181
155°	327	337	362	399	410	150
165°	353	358	363	378	380	100
175°	366	366	364	369	368	35
180°	366	366	366	366	366	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1234.9	1234.9	1234.9	1234.9	1234.9
2.5°	1237.7	1226.0	1229.1	1229.0	1225.8
5°	1210.4	1198.1	1207.4	1211.7	1216.3
7.5°	1159.2	1149.6	1167.5	1180.8	1190.5
10°	1119.6	1111.4	1134.5	1152.7	1166.2
12.5°	1073.7	1067.4	1095.3	1120.3	1137.5
15°	998.3	994.8	1029.9	1064.5	1087.3
17.5°	917.5	917.4	957.5	1000.5	1027.9
20°	862.1	863.8	906.9	954.2	986.3
22.5°	806.6	810.7	856.7	906.0	942.8
25°	724.1	729.9	781.4	834.9	874.0
27.5°	644.7	653.3	707.5	763.0	810.7
30°	592.6	602.6	657.8	716.2	765.3
32.5°	541.5	553.3	607.1	668.9	718.9
35°	464.8	476.5	528.1	590.3	644.0
37.5°	385.6	397.0	447.5	508.6	566.7
40°	334.0	346.8	394.9	454.2	513.2
42.5°	287.1	300.0	345.2	403.4	459.2
45°	222.8	236.3	276.0	329.7	381.2
47.5°	169.5	184.1	219.0	267.6	314.5
50°	138.0	152.6	187.0	229.8	274.8
52.5°	112.7	126.8	157.8	198.2	239.4
55°	80.1	93.5	120.7	154.9	190.6
57.5°	55.3	66.9	91.3	119.9	147.8
60°	40.0	51.1	74.1	97.3	120.1
62.5°	26.6	36.8	59.3	77.1	92.4
65°	9.0	17.1	38.2	46.1	51.4
67.5°	4.5	5.5	20.1	21.2	22.9
70°	3.6	3.6	9.6	10.2	11.9
72.5°	2.6	2.6	3.8	4.9	5.3
75°	1.2	1.2	0.6	0.0	0.0
77.5°	0.6	0.6	0.5	0.0	0.0
80°	0.6	0.6	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°	0.2	0.6	1.1	1.4	1.4
90°	0.8	3.1	5.4	7.0	7.0
92.5°	10.7	45.9	79.5	30.5	25.1
95°	25.7	94.1	305.0	130.4	83.3
97.5°	41.9	104.4	465.4	358.6	253.0
100°	53.7	110.7	515.9	520.7	424.8
102.5°	64.9	118.3	528.9	646.0	558.0
105°	84.8	130.5	522.9	796.3	743.0
107.5°	103.8	145.5	493.1	869.9	885.7
110°	117.5	155.5	470.7	888.2	943.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	129.9	166.8	448.3	876.4	959.8
115°	150.2	182.9	419.4	835.1	947.7
117.5°	169.5	199.6	401.0	777.1	904.4
120°	181.3	210.2	392.9	733.6	865.2
122.5°	191.9	220.8	387.3	695.5	820.4
125°	207.0	235.9	380.5	643.6	753.9
127.5°	221.3	248.8	376.0	600.4	697.1
130°	228.8	256.9	373.5	574.7	662.9
132.5°	237.5	265.6	371.6	552.1	631.8
135°	249.8	277.1	369.6	520.5	589.0
137.5°	261.3	286.7	367.9	495.0	551.5
140°	270.0	293.6	367.2	478.1	529.1
142.5°	277.5	299.2	366.0	463.0	506.7
145°	288.7	308.4	364.1	443.5	477.7
147.5°	300.6	317.7	363.2	426.2	453.6
150°	308.1	323.3	362.6	416.7	438.0
152.5°	315.0	329.0	362.0	408.6	426.2
155°	326.8	337.4	361.8	398.6	410.0
157.5°	335.3	344.0	361.8	390.5	398.4
160°	341.6	348.4	361.8	386.1	392.1
162.5°	346.5	352.2	362.4	382.3	387.2
165°	353.2	357.8	363.4	378.2	380.5
167.5°	357.9	361.4	364.1	374.7	375.3
170°	361.0	363.3	364.1	373.5	373.5
172.5°	363.5	364.6	364.1	371.6	371.0
175°	365.7	366.4	364.1	368.8	368.0
177.5°	366.3	366.3	363.8	367.5	366.3
180°	365.7	365.7	365.7	365.7	365.7

(END OF REPORT)