

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: P844847

Luminaire Tested: **SQ4P-BB-0U-075D-B35-1D-UNV**

Issue Date: 8/14/2023



Test Information

Test Method: LM-79-08
Report Number: P844847
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P518604)
Test Lab: INNOVATION CENTER
Issue Date: 8/14/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4P-BB-0U-075D-B35-1D-UNV
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, DIRECT ONLY 750 LUMENS PER FOOT DOWNLIGHT

Light Source: -
Ballast/Driver: -

Summary

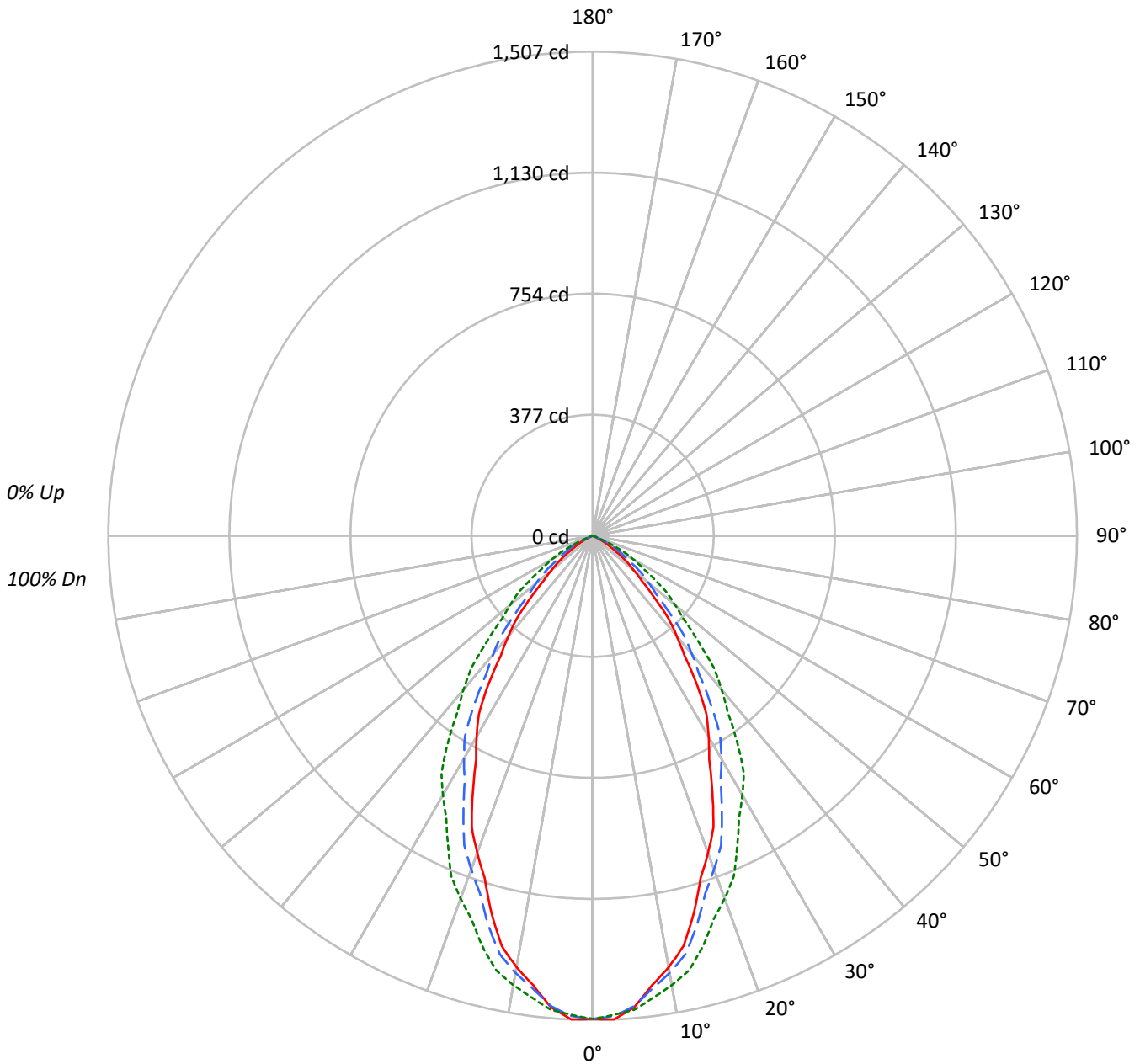
Lumens per Lamp: N/A
Luminaire Lumens: 1793.7 lumens
Efficiency: N/A
Efficacy: 70.1 lumens/watt
Spacing Criteria (0/90/45): 0.85 / 0.97 / 0.97
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 25.6
Input Voltage (V): NR
Input Current (A_{in}): 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: 25 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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			
1	112	109	106	104	110	107	104	102	103	101	99	99	98	96	96	94	93	91			
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	82			
3	99	91	85	81	97	90	84	80	87	82	79	85	81	77	82	79	76	74			
4	93	84	77	72	91	83	76	72	80	75	71	78	74	70	76	72	69	67			
5	87	77	70	65	85	76	70	65	74	68	64	72	67	64	71	66	63	61			
6	82	71	64	59	80	70	64	59	69	63	58	67	62	58	66	61	58	56			
7	77	66	59	54	75	65	59	54	64	58	53	62	57	53	61	56	53	51			
8	72	61	54	50	71	61	54	49	59	53	49	58	53	49	57	52	49	47			
9	68	57	50	46	67	57	50	46	56	50	46	55	49	45	54	49	45	44			
10	65	54	47	42	63	53	47	42	52	46	42	51	46	42	51	46	42	41			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13873	13873	13873
5°	13650	13616	13718
10°	12770	12942	13303
15°	11611	11979	12646
20°	10307	10842	11792
25°	8975	9686	10835
30°	7689	8533	9928
35°	6374	7243	8831
40°	4897	5792	7525
45°	3542	4385	6055
50°	2411	3267	4804
55°	1568	2363	3732
60°	899	1664	2700
65°	238	1017	1367
70°	119	313	391
75°	53	25	0
80°	37	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.2	7.7
10°-20°	350.9	19.6
20°-30°	439.3	24.5
30°-40°	405.8	22.6
40°-50°	272.7	15.2
50°-60°	140.8	7.9
60°-70°	44.1	2.5
70°-80°	2.8	0.2
80°-90°	0.1	0.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	927.5	51.7
0°-40°	1333.3	74.3
0°-60°	1746.8	97.4
0°-90°	1793.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1793.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1504	1504	1504	1504	1504	
5°	1474	1459	1470	1475	1481	137
15°	1216	1211	1254	1296	1324	339
25°	882	889	952	1017	1064	404
35°	566	580	643	719	784	351
45°	272	288	336	402	464	213
55°	98	114	147	189	232	91
65°	11	21	47	56	63	18
75°	2	2	1	0	0	2
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1503.7	1503.7	1503.7	1503.7	1503.7
2.5°	1507.1	1493.0	1496.6	1496.6	1492.6
5°	1473.8	1458.8	1470.2	1475.4	1481.2
7.5°	1411.6	1399.9	1421.7	1437.8	1449.6
10°	1363.1	1353.3	1381.4	1403.6	1420.0
12.5°	1307.4	1299.6	1333.7	1364.2	1385.1
15°	1215.6	1211.4	1254.1	1296.1	1324.0
17.5°	1117.3	1117.1	1165.9	1218.2	1251.7
20°	1049.8	1052.0	1104.3	1161.9	1201.0
22.5°	982.3	987.2	1043.2	1103.3	1148.1
25°	881.6	888.7	951.5	1016.6	1064.3
27.5°	785.1	795.5	861.5	929.1	987.2
30°	721.7	733.7	801.0	872.1	931.9
32.5°	659.3	673.7	739.1	814.6	875.3
35°	565.9	580.2	643.1	718.8	784.1
37.5°	469.5	483.4	544.8	619.4	690.1
40°	406.6	422.3	480.9	553.1	624.8
42.5°	349.6	365.3	420.3	491.2	559.2
45°	271.5	287.7	336.1	401.5	464.1
47.5°	206.6	224.2	266.7	326.0	382.9
50°	168.0	185.7	227.6	279.8	334.7
52.5°	137.2	154.5	192.2	241.3	291.5
55°	97.5	113.8	146.9	188.8	232.0
57.5°	67.3	81.5	111.2	145.9	180.1
60°	48.7	62.2	90.2	118.4	146.3
62.5°	32.5	44.8	72.1	93.8	112.5
65°	10.9	20.9	46.6	56.2	62.6
67.5°	5.6	6.6	24.4	25.8	28.0
70°	4.4	4.4	11.6	12.3	14.5
72.5°	3.1	3.1	4.6	6.0	6.5
75°	1.5	1.5	0.7	0.0	0.0
77.5°	0.7	0.7	0.7	0.0	0.0
80°	0.7	0.7	0.0	0.0	0.0
82.5°	0.2	0.2	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



Report Generated By 670246072 / DESKTOP-50001EG





— 0°-180° - - 45°-225° - - - - 90°-270°







(END OF REPORT)