

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: P521519

Luminaire Tested: **SQ4-F-0U-075D-93050-1D-UNV-STD-W-4 (4000K)**

Issue Date: 5/5/2021

Test Information

Test Method: LM-79-08
Report Number: P521519
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-33)
Test Lab: INNOVATION CENTER
Issue Date: 5/5/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-F-0U-075D-93050-1D-UNV-STD-W-4 (4000K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 750 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3000K/5000K CCT, 90 CRI LEDS, TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

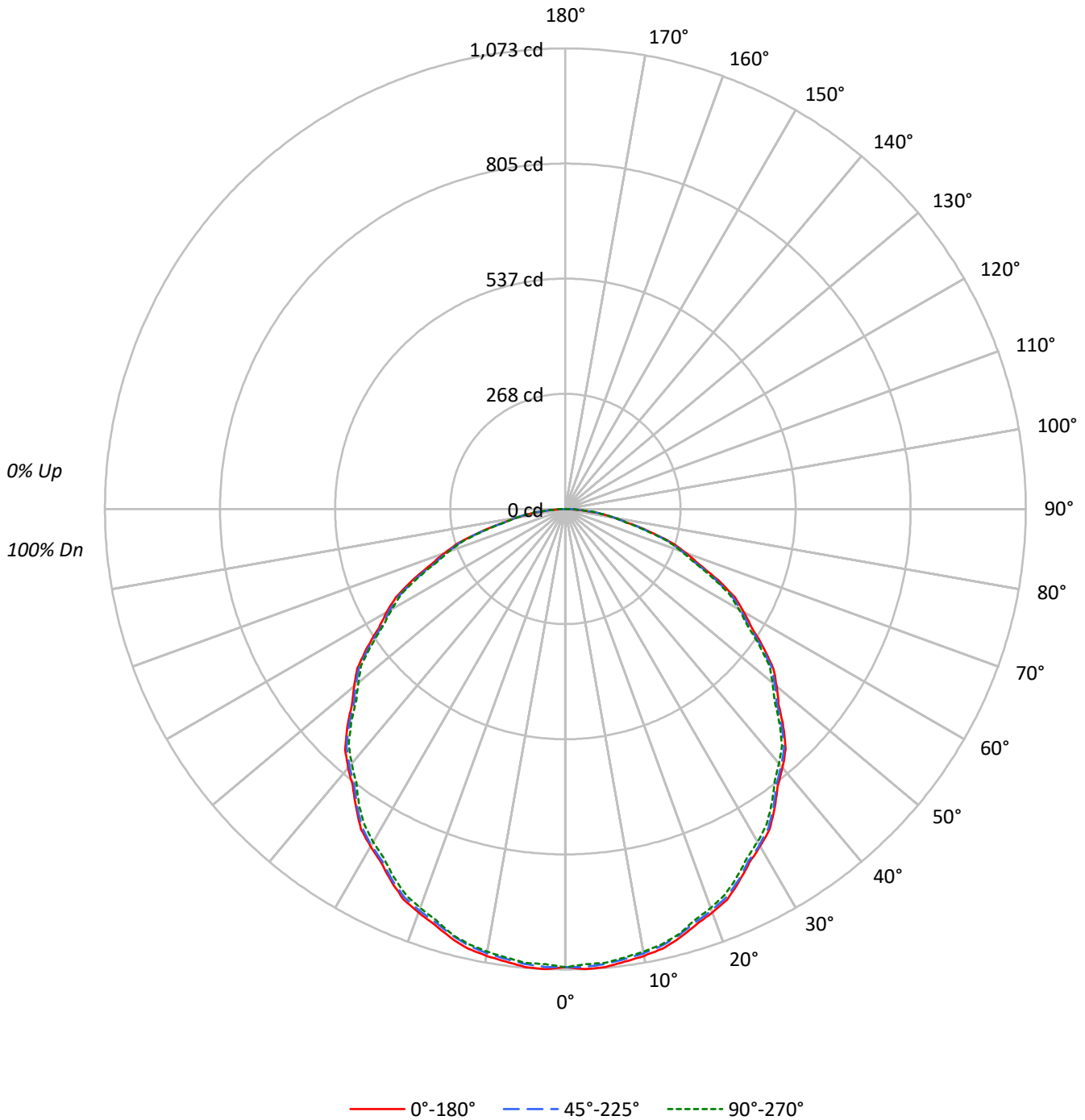
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3043.3 lumens
Efficiency: N/A
Efficacy: 96.3 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.25 / 1.38
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 31.6
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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				
1	109	104	100	96	106	102	98	94	97	94	91	93	91	88	90	88	86	84				
2	99	90	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	70				
3	90	79	71	65	87	78	70	64	75	68	63	72	66	62	69	65	61	58				
4	82	70	61	55	80	69	61	54	66	59	53	64	58	53	62	56	52	50				
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	43				
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	38				
7	65	51	42	36	63	50	42	36	49	41	36	47	41	35	46	40	35	33				
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	31	30				
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	28	27				
10	53	39	32	26	51	39	31	26	38	31	26	37	31	26	36	30	26	24				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9846	9846	9846
5°	9922	9856	9828
10°	9903	9847	9809
15°	9875	9808	9789
20°	9823	9774	9714
25°	9753	9712	9630
30°	9669	9636	9539
35°	9574	9527	9447
40°	9482	9421	9324
45°	9376	9297	9204
50°	9226	9153	9037
55°	9071	8958	8844
60°	8859	8710	8615
65°	8582	8361	8252
70°	8071	7853	7769
75°	7204	7062	6955
80°	5961	6014	5961
85°	4277	4817	5028



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.0	3.3
10°-20°	289.3	9.5
20°-30°	437.5	14.4
30°-40°	526.8	17.3
40°-50°	547.2	18.0
50°-60°	496.5	16.3
60°-70°	378.7	12.4
70°-80°	211.0	6.9
80°-90°	55.4	1.8
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°	827.8	27.2
0°-40°	1354.6	44.5
0°-60°	2398.3	78.8
0°-90°	3043.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3043.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1067	1067	1067	1067	1067	
5°	1071	1061	1064	1062	1061	102
15°	1034	1022	1027	1025	1025	292
25°	958	948	954	945	946	441
35°	850	844	846	837	839	532
45°	719	712	712	704	705	554
55°	564	561	557	550	550	503
65°	393	389	383	377	378	387
75°	202	201	198	196	195	215
85°	40	45	46	48	48	51
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1067.2	1067.2	1067.2	1067.2	1067.2
2.5°	1072.9	1065.0	1068.0	1065.5	1061.6
5°	1071.3	1061.4	1064.2	1062.2	1061.2
7.5°	1063.6	1053.7	1057.5	1054.5	1054.3
10°	1057.1	1047.3	1051.1	1048.0	1047.0
12.5°	1049.0	1038.4	1042.2	1039.1	1038.9
15°	1033.9	1022.0	1026.8	1024.8	1024.8
17.5°	1015.1	1003.4	1009.2	1005.6	1004.0
20°	1000.5	989.7	995.5	989.4	989.4
22.5°	985.2	974.3	979.3	972.4	972.4
25°	958.1	948.2	954.0	945.0	946.0
27.5°	928.6	919.7	924.7	916.1	916.5
30°	907.6	898.7	904.5	893.5	895.4
32.5°	885.7	877.6	881.1	871.6	872.0
35°	850.0	844.0	845.9	836.9	838.8
37.5°	813.2	806.2	808.1	798.9	800.8
40°	787.3	780.4	782.2	772.2	774.2
42.5°	759.8	753.7	754.7	744.7	747.5
45°	718.6	711.6	712.5	703.5	705.4
47.5°	674.3	668.8	667.6	659.4	661.2
50°	642.8	638.8	637.7	628.6	629.6
52.5°	611.2	608.1	605.4	597.1	599.7
55°	563.9	561.0	556.9	549.8	549.8
57.5°	514.8	511.9	506.7	499.7	501.7
60°	480.1	477.1	472.0	464.9	466.9
62.5°	445.3	442.3	436.4	430.2	431.3
65°	393.1	389.2	383.0	377.0	378.0
67.5°	337.2	333.4	328.3	322.4	323.6
70°	299.2	296.2	291.1	286.1	288.0
72.5°	259.5	256.6	252.3	249.6	249.2
75°	202.1	201.1	198.1	196.0	195.1
77.5°	147.8	149.1	145.5	144.7	144.5
80°	112.2	115.1	113.2	113.2	112.2
82.5°	80.6	85.2	84.1	84.1	83.9
85°	40.4	45.4	45.5	47.5	47.5
87.5°	11.3	16.1	18.6	19.4	19.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)