

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: P564162

Luminaire Tested: **SQ4-PR1-0U-075D-830-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564162
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PR1-0U-075D-830-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

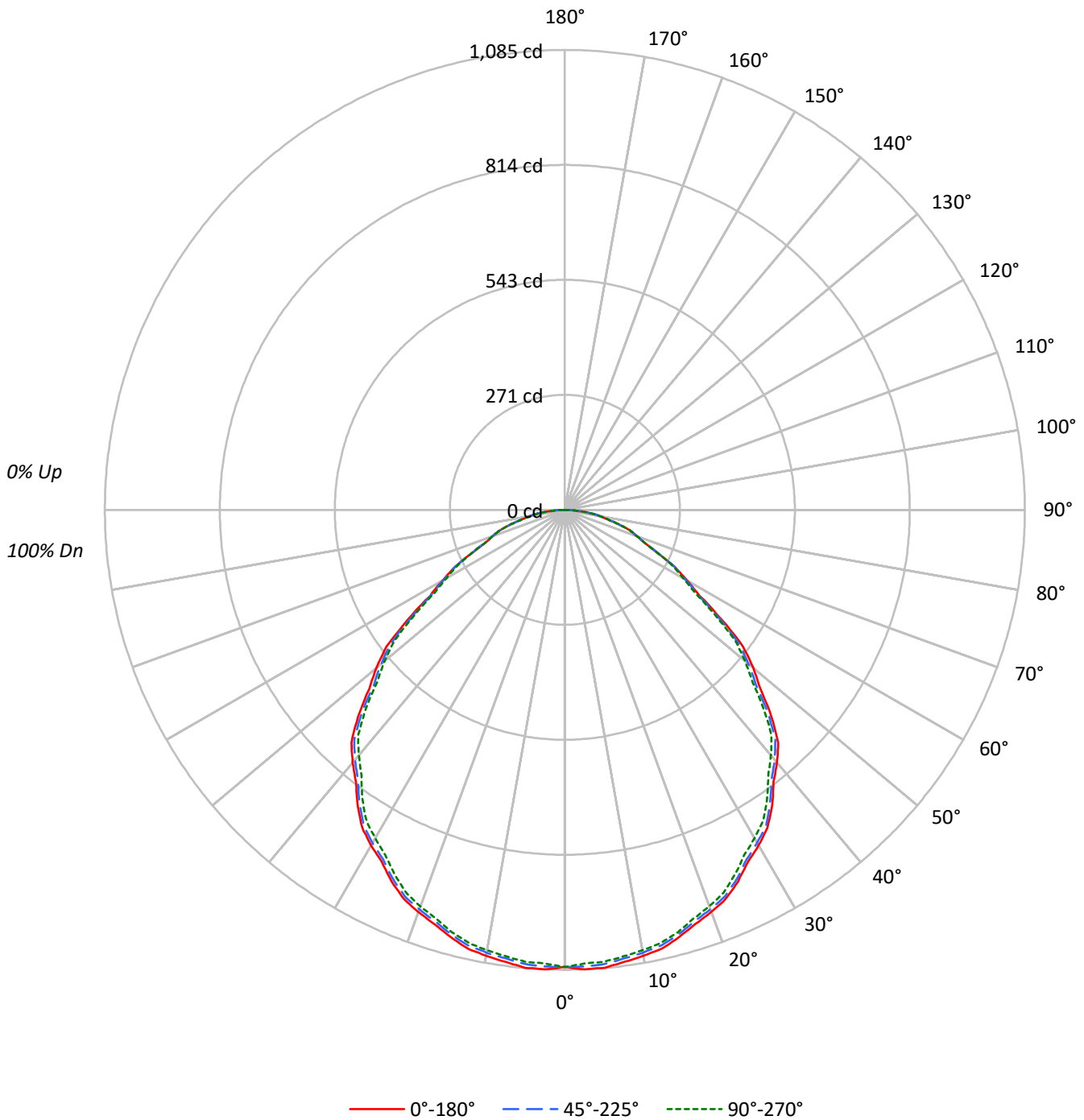
Lumens per Lamp: N/A
Luminaire Lumens: 2695.9 lumens
Efficiency: N/A
Efficacy: 112.3 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 24
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	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	87	85				
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	72				
3	92	82	74	68	90	80	73	68	78	71	66	75	70	65	72	68	64	62				
4	85	73	65	58	82	72	64	58	69	63	57	67	61	56	65	60	56	54				
5	78	66	57	51	76	65	57	50	63	55	50	61	54	49	59	53	49	47				
6	72	59	51	45	70	58	50	44	57	49	44	55	49	44	53	48	43	41				
7	67	54	46	40	65	53	45	39	52	44	39	50	44	39	49	43	39	37				
8	63	49	41	35	61	49	41	35	47	40	35	46	40	35	45	39	35	33				
9	58	45	37	32	57	45	37	32	44	37	32	43	36	32	42	36	31	30				
10	55	42	34	29	54	41	34	29	40	34	29	40	33	29	39	33	29	27				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9950	9950	9950
5°	10039	9962	9910
10°	10007	9937	9886
15°	9963	9901	9848
20°	9914	9850	9776
25°	9843	9777	9664
30°	9737	9668	9530
35°	9594	9509	9373
40°	9375	9274	9106
45°	8993	8835	8653
50°	8319	8120	7959
55°	7261	7097	6947
60°	6119	6067	5947
65°	5292	5314	5272
70°	4861	4885	4885
75°	4670	4670	4702
80°	4394	4442	4394
85°	3536	3938	3938



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.0	3.8
10°-20°	291.8	10.8
20°-30°	440.1	16.3
30°-40°	524.4	19.5
40°-50°	517.0	19.2
50°-60°	395.1	14.7
60°-70°	244.5	9.1
70°-80°	138.9	5.2
80°-90°	42.3	1.6
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°	833.8	30.9
0°-40°	1358.2	50.4
0°-60°	2270.2	84.2
0°-90°	2695.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2695.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1078	1078	1078	1078	1078	
5°	1084	1072	1076	1072	1070	103
15°	1043	1032	1037	1033	1031	294
25°	967	955	960	950	949	445
35°	852	842	844	833	832	532
45°	689	680	677	665	663	528
55°	451	444	441	434	432	404
65°	242	241	243	242	242	246
75°	131	131	131	132	132	138
85°	33	35	37	37	37	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1078.4	1078.4	1078.4	1078.4	1078.4
2.5°	1085.1	1075.6	1078.4	1076.0	1071.0
5°	1084.0	1072.2	1075.6	1071.8	1070.0
7.5°	1075.6	1064.0	1067.4	1063.7	1062.6
10°	1068.2	1057.3	1060.7	1057.0	1055.2
12.5°	1060.0	1048.4	1052.6	1048.1	1046.3
15°	1043.1	1032.2	1036.6	1032.8	1031.0
17.5°	1024.5	1012.9	1017.3	1012.9	1010.6
20°	1009.7	998.8	1003.2	996.6	995.7
22.5°	993.3	982.4	986.8	978.1	977.9
25°	966.9	955.1	960.4	950.2	949.3
27.5°	935.5	924.6	929.0	918.6	917.5
30°	914.0	903.1	907.5	896.3	894.5
32.5°	889.5	879.3	883.0	871.8	870.7
35°	851.8	841.8	844.3	833.2	832.2
37.5°	808.8	799.8	801.2	788.9	788.0
40°	778.4	769.3	770.0	757.0	756.1
42.5°	744.9	735.9	735.1	722.1	721.2
45°	689.2	680.1	677.1	665.0	663.2
47.5°	625.7	616.6	611.0	601.1	599.8
50°	579.6	570.5	565.7	557.2	554.5
52.5°	529.8	520.7	516.6	508.9	506.2
55°	451.4	444.2	441.2	433.7	431.9
57.5°	376.9	372.0	371.2	363.9	363.2
60°	331.6	328.9	328.8	322.3	322.3
62.5°	293.0	291.0	292.4	288.1	287.4
65°	242.4	240.6	243.4	241.5	241.5
67.5°	202.5	202.5	204.2	203.4	203.4
70°	180.2	180.2	181.1	181.1	181.1
72.5°	160.1	159.4	161.8	161.8	161.1
75°	131.0	131.0	131.0	131.9	131.9
77.5°	102.0	102.2	102.9	102.7	102.0
80°	82.7	83.6	83.6	82.7	82.7
82.5°	63.3	64.3	64.3	64.1	63.3
85°	33.4	35.3	37.2	37.2	37.2
87.5°	9.7	12.6	14.9	14.8	14.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)