

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: P564854

Luminaire Tested: **SQ4-PW1-0U-075D-940-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564854
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PW1-0U-075D-940-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
DIRECT ONLY
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

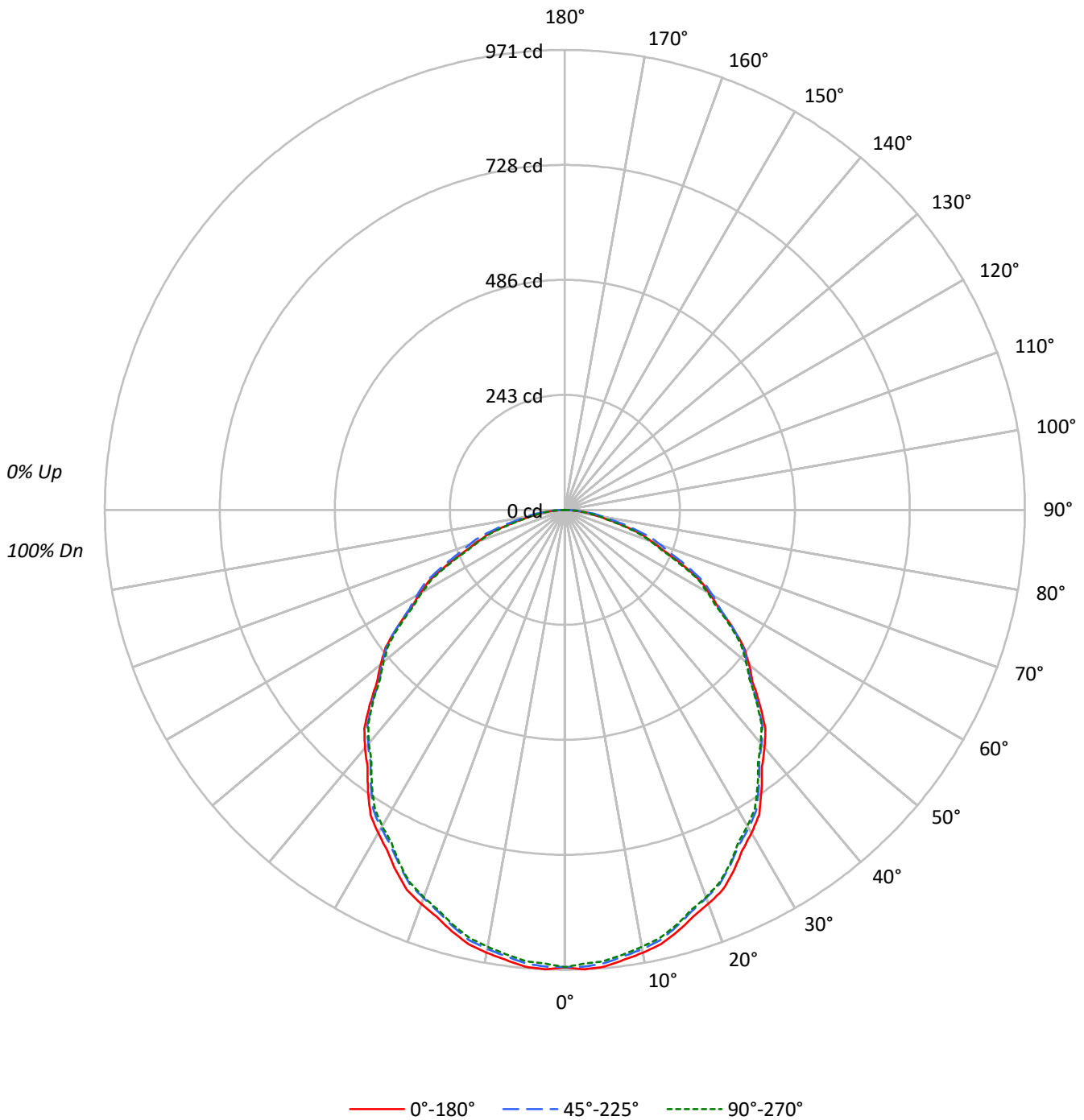
Lumens per Lamp: N/A
Luminaire Lumens: 2456.6 lumens
Efficiency: N/A
Efficacy: 102.4 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Direct

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	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	109	105	101	97	107	102	99	95	98	95	92		94	92	89		91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77		83	79	75		80	76	73	71
3	91	81	73	67	89	79	72	66	76	70	65		74	68	64		71	66	63	60
4	84	72	63	57	81	71	63	56	68	61	56		66	60	55		64	58	54	52
5	77	64	56	49	75	63	55	49	61	54	48		59	53	48		57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42		54	47	42		52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38		49	42	37		48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34		45	38	34		44	38	33	31
9	58	44	36	31	56	44	36	31	43	35	31		42	35	30		41	35	30	28
10	54	41	33	28	53	40	33	28	39	33	28		39	32	28		38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8908	8908	8908
5°	8966	8895	8856
10°	8894	8822	8775
15°	8800	8703	8670
20°	8695	8562	8545
25°	8574	8418	8391
30°	8393	8265	8211
35°	8153	8038	7991
40°	7900	7777	7745
45°	7593	7492	7459
50°	7277	7217	7168
55°	6938	6938	6828
60°	6514	6639	6405
65°	5962	6259	5814
70°	5255	5759	5117
75°	4488	5155	4367
80°	3480	4341	3528
85°	2255	3335	2975



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.9	3.7
10°-20°	256.7	10.4
20°-30°	380.8	15.5
30°-40°	445.5	18.1
40°-50°	443.5	18.1
50°-60°	383.0	15.6
60°-70°	275.7	11.2
70°-80°	144.6	5.9
80°-90°	35.8	1.5
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°	728.4	29.6
0°-40°	1173.9	47.8
0°-60°	2000.5	81.4
0°-90°	2456.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2456.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	966	966	966	966	966	
5°	968	957	960	958	956	92
15°	921	910	911	909	908	260
25°	842	828	827	822	824	387
35°	724	714	714	707	710	453
45°	582	577	574	572	572	449
55°	431	430	431	425	424	385
65°	273	281	287	275	266	271
75°	126	138	145	135	122	135
85°	21	28	32	30	28	29
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	965.5	965.5	965.5	965.5	965.5
2.5°	971.0	963.0	965.5	963.4	958.7
5°	968.1	957.3	960.4	957.9	956.2
7.5°	958.2	948.3	950.6	947.8	946.8
10°	949.4	939.4	941.7	938.3	936.6
12.5°	939.2	928.5	930.8	927.4	926.4
15°	921.3	909.7	911.1	909.4	907.7
17.5°	900.6	888.7	889.0	886.3	885.9
20°	885.6	873.1	872.0	868.6	870.3
22.5°	869.2	856.1	855.0	850.2	852.6
25°	842.2	828.1	826.9	821.8	824.3
27.5°	810.9	796.9	796.9	789.9	792.5
30°	787.8	774.4	775.8	767.4	770.7
32.5°	763.3	751.3	752.0	743.6	746.9
35°	723.9	714.0	713.7	707.0	709.5
37.5°	683.8	675.0	673.6	669.7	670.4
40°	655.9	648.4	645.7	643.1	643.1
42.5°	626.6	619.8	617.1	615.2	614.5
45°	581.9	576.9	574.2	572.5	571.7
47.5°	537.6	533.0	530.7	529.5	528.6
50°	507.0	503.7	502.8	500.2	499.4
52.5°	476.4	474.4	473.5	470.2	469.4
55°	431.3	430.5	431.3	425.3	424.5
57.5°	384.3	385.7	388.4	380.4	378.4
60°	353.0	356.4	359.8	350.4	347.1
62.5°	321.1	326.4	331.3	320.4	315.8
65°	273.1	281.4	286.7	275.4	266.3
67.5°	226.8	237.1	243.5	231.3	221.0
70°	194.8	206.5	213.5	201.4	189.7
72.5°	166.9	179.9	185.6	174.1	162.5
75°	125.9	137.5	144.6	135.0	122.5
77.5°	89.3	100.3	106.2	97.8	87.5
80°	65.5	77.1	81.7	74.7	66.4
82.5°	46.4	56.1	59.2	55.0	49.3
85°	21.3	27.9	31.5	29.7	28.1
87.5°	5.4	10.1	12.9	12.9	13.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)