

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: P564855

Luminaire Tested: **SQ4-PW1-0U-075D-940-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564855
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-6
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

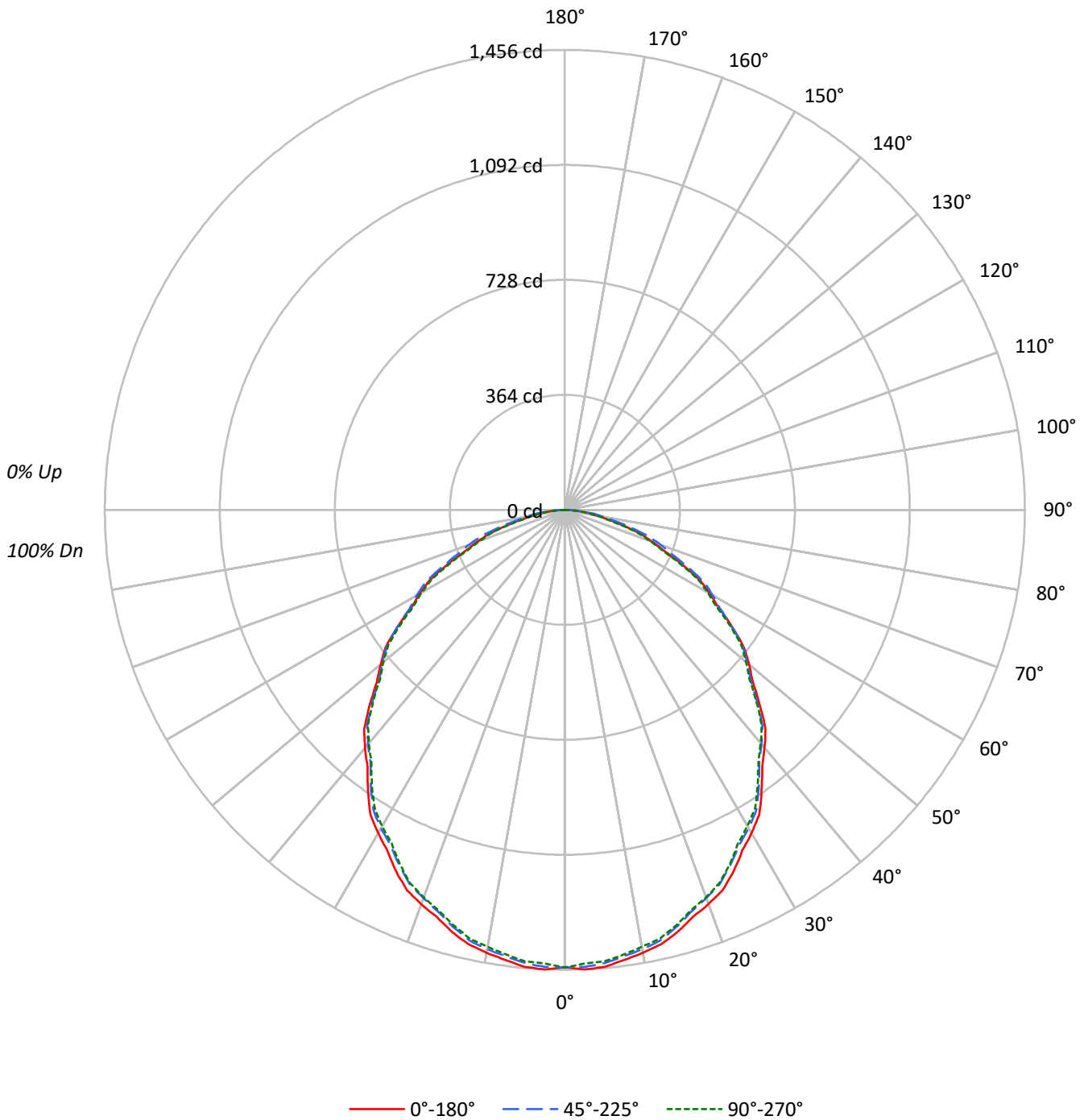
Lumens per Lamp: N/A
Luminaire Lumens: 3684.9 lumens
Efficiency: N/A
Efficacy: 91.2 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Direct

Input Watts (W): 40.4
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	8823	8775
15°	8800	8703	8670
20°	8695	8562	8545
25°	8574	8417	8392
30°	8392	8266	8211
35°	8154	8039	7991
40°	7899	7776	7746
45°	7592	7492	7459
50°	7277	7216	7167
55°	6938	6938	6829
60°	6515	6640	6404
65°	5961	6258	5813
70°	5255	5760	5118
75°	4489	5155	4368
80°	3482	4339	3524
85°	2251	3331	2971



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.4	3.7
10°-20°	385.0	10.4
20°-30°	571.2	15.5
30°-40°	668.3	18.1
40°-50°	665.3	18.1
50°-60°	574.5	15.6
60°-70°	413.6	11.2
70°-80°	216.9	5.9
80°-90°	53.8	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°	1092.6	29.7
0°-40°	1760.9	47.8
0°-60°	3000.7	81.4
0°-90°	3684.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3684.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1448	1448	1448	1448	1448	
5°	1452	1436	1441	1437	1434	138
15°	1382	1364	1367	1364	1362	390
25°	1263	1242	1240	1233	1236	581
35°	1086	1071	1071	1060	1064	679
45°	873	865	861	859	858	673
55°	647	646	647	638	637	577
65°	410	422	430	413	399	406
75°	189	206	217	202	184	202
85°	32	42	47	45	42	43
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1448.3	1448.3	1448.3	1448.3	1448.3
2.5°	1456.5	1444.5	1448.3	1445.1	1438.1
5°	1452.2	1435.9	1440.7	1436.8	1434.3
7.5°	1437.3	1422.4	1425.9	1421.7	1420.2
10°	1424.1	1409.1	1412.6	1407.4	1404.9
12.5°	1408.8	1392.8	1396.3	1391.1	1389.6
15°	1382.0	1364.5	1366.7	1364.0	1361.6
17.5°	1350.8	1333.1	1333.5	1329.4	1328.9
20°	1328.4	1309.7	1308.0	1302.9	1305.4
22.5°	1303.9	1284.2	1282.4	1275.4	1278.9
25°	1263.3	1242.1	1240.3	1232.8	1236.5
27.5°	1216.3	1195.4	1195.4	1184.8	1188.8
30°	1181.6	1161.7	1163.8	1151.1	1156.1
32.5°	1144.9	1126.9	1128.0	1115.4	1120.4
35°	1085.9	1071.0	1070.6	1060.5	1064.2
37.5°	1025.7	1012.5	1010.4	1004.5	1005.5
40°	983.8	972.6	968.5	964.7	964.7
42.5°	939.9	929.7	925.7	922.8	921.8
45°	872.8	865.3	861.3	858.8	857.5
47.5°	806.5	799.5	796.0	794.2	792.9
50°	760.5	755.5	754.1	750.3	749.0
52.5°	714.6	711.6	710.3	705.4	704.1
55°	647.0	645.7	647.0	638.0	636.8
57.5°	576.5	578.5	582.6	570.6	567.6
60°	529.6	534.6	539.8	525.6	520.6
62.5°	481.6	489.6	496.9	480.7	473.7
65°	409.6	422.1	430.0	413.1	399.4
67.5°	340.2	355.7	365.2	347.0	331.5
70°	292.2	309.7	320.3	302.0	284.6
72.5°	250.4	269.8	278.4	261.2	243.7
75°	188.9	206.3	216.9	202.5	183.8
77.5°	134.0	150.5	159.3	146.6	131.2
80°	98.3	115.7	122.5	112.0	99.5
82.5°	69.7	84.1	88.8	82.5	74.0
85°	31.9	41.9	47.2	44.6	42.1
87.5°	8.2	15.2	19.4	19.4	20.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)