

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: P561901

Luminaire Tested: **SQ4-PR1-075U-075D-92765-1D-UNV-STD-W-4 (6500K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P561901
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, 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-PR1-075U-075D-92765-1D-UNV-STD-W-4 (6500K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

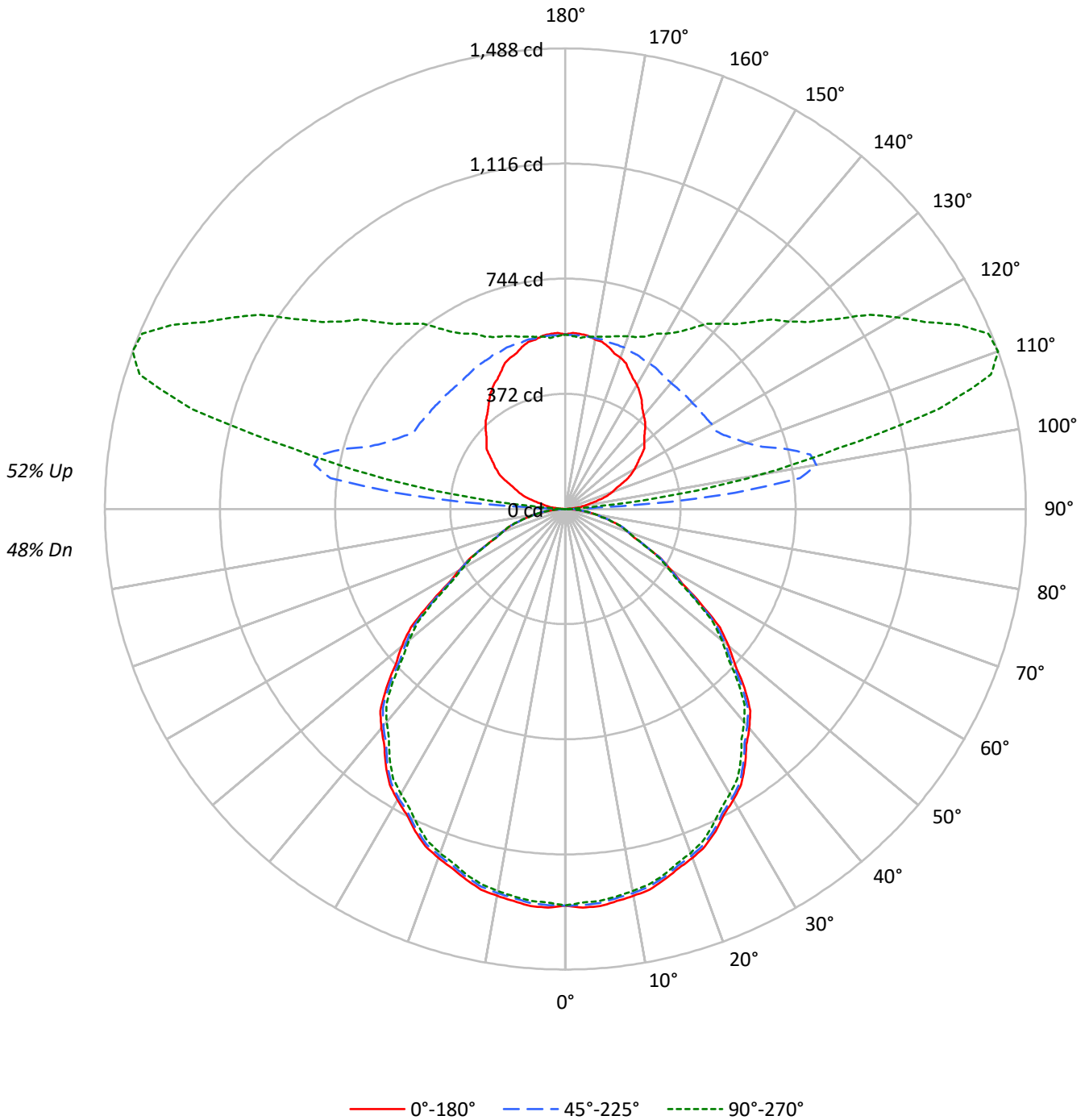
Lumens per Lamp: N/A
Luminaire Lumens: 6702.7 lumens
Efficiency: N/A
Efficacy: 121.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 55.2
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				
RC	80					70					50					30				
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																				
0	107	107	107	107	98	98	98	98	82	82	82	68	68	68	54	54	54	48		
1	98	93	90	86	90	86	83	80	72	70	68	60	58	57	48	47	46	41		
2	89	82	76	71	82	76	70	66	64	60	57	53	50	48	43	41	39	35		
3	81	72	65	59	75	67	60	55	56	52	48	47	44	41	38	36	34	30		
4	75	64	56	50	68	59	52	47	50	45	41	42	38	35	34	32	29	26		
5	68	57	49	43	63	53	46	41	45	40	36	38	34	31	31	28	26	22		
6	63	51	43	38	58	48	41	35	41	35	31	34	30	27	28	25	23	20		
7	58	46	38	33	54	43	36	31	37	31	27	31	27	24	26	23	20	18		
8	54	42	34	29	50	39	32	28	34	28	24	28	24	21	24	20	18	16		
9	50	38	31	26	46	36	29	25	31	26	22	26	22	19	22	19	16	14		
10	47	35	28	23	43	33	26	22	28	23	20	24	20	17	20	17	15	13		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11821	11821	11821
5°	11927	11835	11774
10°	11890	11806	11744
15°	11837	11764	11700
20°	11778	11701	11615
25°	11695	11616	11481
30°	11569	11487	11321
35°	11398	11298	11137
40°	11138	11018	10819
45°	10684	10497	10280
50°	9884	9647	9456
55°	8627	8432	8253
60°	7270	7209	7065
65°	6287	6311	6263
70°	5775	5805	5805
75°	5547	5547	5586
80°	5218	5276	5218
85°	4203	4668	4668



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.2	1.8
10°-20°	346.6	5.2
20°-30°	522.9	7.8
30°-40°	623.0	9.3
40°-50°	614.2	9.2
50°-60°	469.4	7.0
60°-70°	290.5	4.3
70°-80°	165.0	2.5
80°-90°	50.2	0.7
90°-100°	256.7	3.8
100°-110°	730.5	10.9
110°-120°	699.9	10.4
120°-130°	553.9	8.3
130°-140°	444.6	6.6
140°-150°	348.1	5.2
150°-160°	254.7	3.8
160°-170°	157.8	2.4
170°-180°	53.5	0.8
0°-30°	990.7	14.8
0°-40°	1613.6	24.1
0°-60°	2697.3	40.2
0°-90°	3202.9	47.8
90°-120°	1687.1	25.2
90°-150°	3033.8	45.3
90°-180°	3500.0	52.2
0°-180°	6702.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1281	1281	1281	1281	1281	
5°	1288	1274	1278	1273	1271	122
15°	1239	1226	1232	1227	1225	350
25°	1149	1135	1141	1129	1128	529
35°	1012	1000	1003	990	989	632
45°	819	808	804	790	788	627
55°	536	528	524	515	513	481
65°	288	286	289	287	287	292
75°	156	156	156	157	157	164
85°	40	42	44	44	44	46
90°	0	0	0	0	0	3
95°	28	111	497	172	106	32
105°	114	172	744	1315	1250	120
115°	211	255	564	1196	1404	208
125°	298	330	539	894	1069	267
135°	364	395	532	755	854	281
145°	430	452	537	654	712	268
155°	491	502	550	591	615	227
165°	542	544	556	568	576	152
175°	568	565	562	559	555	54
180°	563	563	563	563	563	



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CATALOG NUMBER: SQ4-PR1-075U-075D-92765-1D-UNV-STD-W-4 (6500K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1281.2	1281.2	1281.2	1281.2	1281.2
2.5°	1289.2	1277.9	1281.2	1278.4	1272.4
5°	1287.8	1273.8	1277.9	1273.4	1271.3
7.5°	1277.9	1264.1	1268.2	1263.8	1262.5
10°	1269.1	1256.1	1260.2	1255.8	1253.6
12.5°	1259.4	1245.6	1250.5	1245.2	1243.0
15°	1239.3	1226.3	1231.6	1227.1	1224.9
17.5°	1217.2	1203.4	1208.6	1203.5	1200.7
20°	1199.6	1186.6	1191.8	1184.1	1183.0
22.5°	1180.1	1167.2	1172.4	1162.0	1161.8
25°	1148.8	1134.8	1141.1	1128.9	1127.8
27.5°	1111.5	1098.5	1103.8	1091.4	1090.1
30°	1085.9	1072.9	1078.2	1064.9	1062.7
32.5°	1056.8	1044.7	1049.0	1035.8	1034.5
35°	1012.0	1000.1	1003.1	989.9	988.8
37.5°	961.0	950.2	951.9	937.3	936.2
40°	924.8	914.0	914.8	899.4	898.3
42.5°	885.0	874.3	873.3	857.9	856.8
45°	818.8	808.0	804.5	790.1	787.9
47.5°	743.3	732.6	725.9	714.2	712.7
50°	688.6	677.8	672.1	662.1	658.8
52.5°	629.5	618.7	613.8	604.7	601.4
55°	536.3	527.7	524.2	515.3	513.1
57.5°	447.8	442.0	441.0	432.3	431.5
60°	394.0	390.7	390.7	382.9	382.9
62.5°	348.1	345.7	347.4	342.3	341.4
65°	288.0	285.9	289.1	286.9	286.9
67.5°	240.6	240.6	242.6	241.7	241.7
70°	214.1	214.1	215.2	215.2	215.2
72.5°	190.3	189.4	192.2	192.2	191.4
75°	155.6	155.6	155.6	156.7	156.7
77.5°	121.2	121.4	122.3	122.0	121.2
80°	98.2	99.3	99.3	98.2	98.2
82.5°	75.3	76.3	76.4	76.1	75.3
85°	39.7	41.9	44.1	44.1	44.1
87.5°	11.5	14.9	17.7	17.6	16.8
90°	0.0	0.0	0.0	0.0	0.0
92.5°	8.6	45.4	105.4	30.7	23.1
95°	27.8	110.6	497.0	172.0	106.0
97.5°	51.2	129.5	765.4	547.7	375.3
100°	67.5	140.8	823.7	834.3	642.7
102.5°	85.5	152.9	810.8	1068.0	900.6
105°	113.5	172.2	744.4	1314.9	1250.0
107.5°	142.0	194.6	666.9	1384.6	1442.4
110°	161.7	211.0	622.3	1357.9	1487.8

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	180.6	227.3	592.3	1294.9	1480.1
115°	211.0	255.0	564.5	1195.8	1404.3
117.5°	237.8	279.1	548.0	1087.5	1308.3
120°	259.2	293.8	546.3	1025.6	1237.2
122.5°	276.4	310.9	542.0	971.3	1167.7
125°	297.8	330.2	538.8	894.1	1069.0
127.5°	321.1	351.5	537.1	848.0	992.1
130°	333.1	363.5	534.5	815.8	941.5
132.5°	346.0	375.5	534.5	790.8	906.4
135°	364.2	394.6	532.4	755.2	853.7
137.5°	381.3	410.9	532.1	725.2	810.2
140°	394.2	424.5	531.3	700.2	781.9
142.5°	408.7	434.1	533.9	680.3	753.6
145°	429.5	451.5	536.6	653.7	712.3
147.5°	447.3	468.7	541.4	626.7	677.4
150°	462.7	477.4	543.1	617.8	653.4
152.5°	474.7	490.2	544.8	605.7	638.8
155°	490.6	502.1	549.5	590.7	614.8
157.5°	510.3	517.2	550.6	583.9	601.1
160°	520.6	525.8	554.8	578.7	593.4
162.5°	526.6	532.6	555.7	574.4	585.7
165°	542.0	544.1	555.9	567.9	576.3
167.5°	552.5	550.6	560.8	566.3	569.6
170°	555.9	554.9	559.1	560.3	564.5
172.5°	563.6	560.1	561.7	558.6	561.9
175°	567.7	564.6	562.3	559.0	554.8
177.5°	569.4	564.4	561.7	558.3	559.1
180°	563.4	563.4	563.4	563.4	563.4

(END OF REPORT)