

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: P561550

Luminaire Tested: **SQ4-PC3-075U-100D-92765-1D-UNV-STD-W-4 (6500K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P561550
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, G2-2106-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PC3-075U-100D-92765-1D-UNV-STD-W-4 (6500K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS
DOWNLIGHT 1000 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: 7775.7 lumens
Efficiency: N/A
Efficacy: 118.5 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

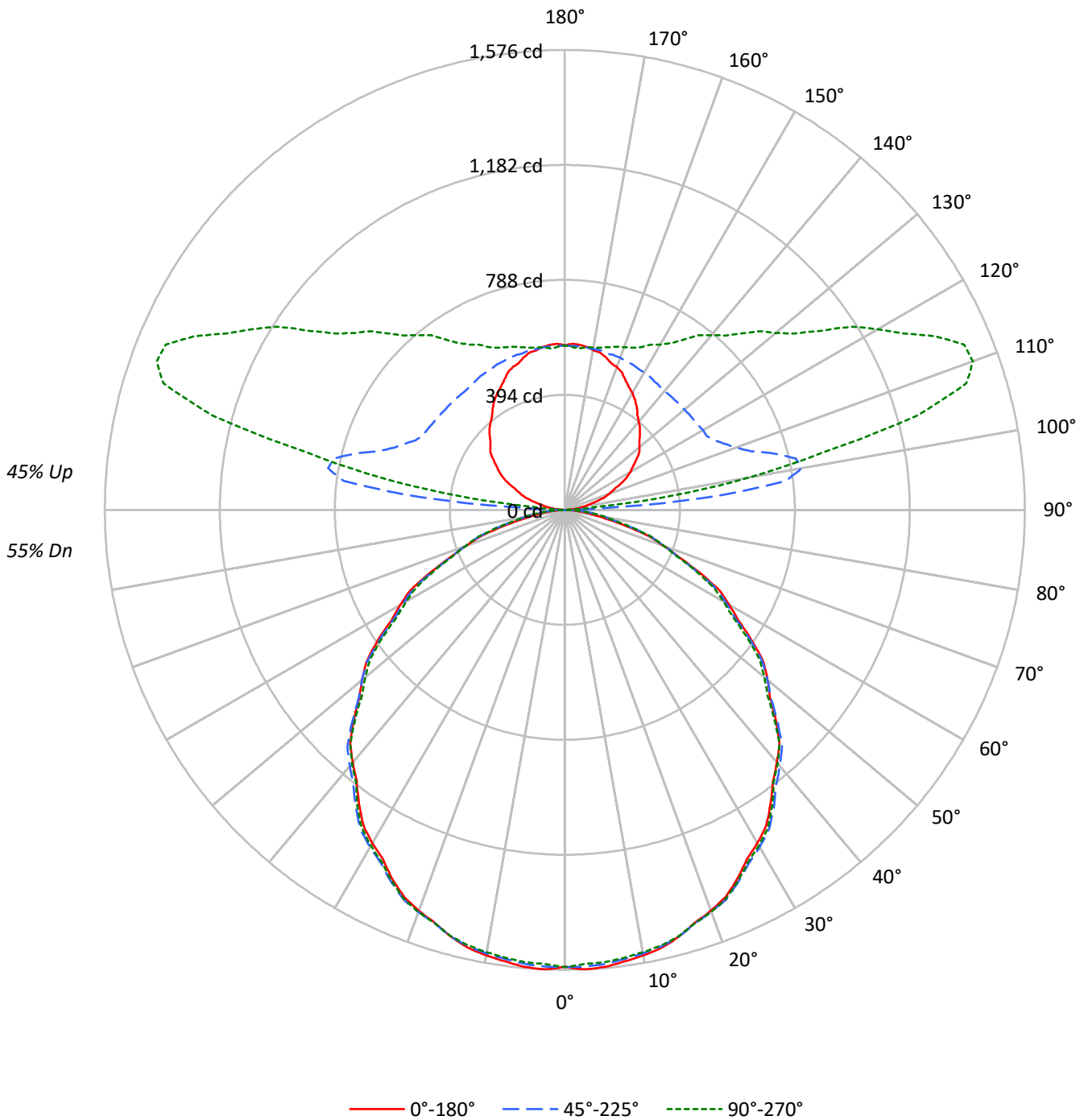
Input Watts (W): 65.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20				
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	108	108	108	108	101	101	101	101	86	86	86	73	73	73	61	61	61	55		
1	99	95	91	87	92	88	85	82	76	73	71	64	63	61	54	53	51	46		
2	90	83	76	71	83	77	72	67	66	62	59	56	53	51	47	45	43	39		
3	82	73	65	59	76	68	61	56	58	53	49	50	46	43	42	39	37	33		
4	75	64	56	50	70	60	53	47	52	46	42	44	40	37	37	34	32	28		
5	69	57	49	43	64	54	46	41	46	41	36	40	35	32	34	30	28	24		
6	64	51	43	37	59	48	41	35	42	36	32	36	31	28	31	27	24	21		
7	59	46	38	33	54	43	36	31	38	32	28	33	28	25	28	24	22	19		
8	55	42	34	29	51	39	32	27	35	29	25	30	25	22	26	22	19	17		
9	51	38	31	26	47	36	29	24	32	26	22	27	23	20	24	20	17	15		
10	47	35	28	23	44	33	26	22	29	24	20	25	21	18	22	18	16	14		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14455	14455	14455
5°	14564	14470	14416
10°	14529	14460	14420
15°	14453	14453	14438
20°	14357	14400	14400
25°	14221	14325	14280
30°	14049	14218	14156
35°	13839	14052	13954
40°	13611	13802	13663
45°	13364	13458	13250
50°	13014	13014	12806
55°	12601	12437	12251
60°	11992	11752	11564
65°	11084	10863	10767
70°	9706	9784	9744
75°	7810	8637	8687
80°	5547	7322	7401
85°	3377	6140	6140



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.3	1.9
10°-20°	425.5	5.5
20°-30°	644.4	8.3
30°-40°	772.5	9.9
40°-50°	787.7	10.1
50°-60°	687.6	8.8
60°-70°	492.3	6.3
70°-80°	253.5	3.3
80°-90°	64.1	0.8
90°-100°	256.7	3.3
100°-110°	730.5	9.4
110°-120°	699.9	9.0
120°-130°	553.9	7.1
130°-140°	444.6	5.7
140°-150°	348.1	4.5
150°-160°	254.7	3.3
160°-170°	157.8	2.0
170°-180°	53.5	0.7
0°-30°	1218.2	15.7
0°-40°	1990.7	25.6
0°-60°	3466.0	44.6
0°-90°	4275.9	55.0
90°-120°	1687.1	21.7
90°-150°	3033.8	39.0
90°-180°	3500.0	45.0
0°-180°	7775.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1567	1567	1567	1567	1567	
5°	1572	1557	1562	1558	1557	149
15°	1513	1500	1513	1513	1512	427
25°	1397	1387	1407	1403	1403	643
35°	1229	1226	1248	1239	1239	768
45°	1024	1021	1031	1018	1016	788
55°	783	773	773	762	762	698
65°	508	496	498	493	493	502
75°	219	229	242	244	244	237
85°	32	49	58	59	58	43
90°	0	0	0	0	0	2
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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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1566.7	1566.7	1566.7	1566.7	1566.7
2.5°	1576.0	1562.4	1566.7	1563.1	1557.5
5°	1572.5	1556.9	1562.4	1558.0	1556.6
7.5°	1561.2	1545.6	1552.8	1549.9	1548.5
10°	1550.8	1535.2	1543.5	1540.6	1539.2
12.5°	1536.9	1522.4	1531.9	1529.0	1528.7
15°	1513.1	1500.3	1513.1	1513.0	1511.6
17.5°	1483.2	1471.6	1485.2	1486.1	1485.2
20°	1462.3	1449.5	1466.6	1465.2	1466.6
22.5°	1436.8	1426.3	1444.6	1440.9	1442.3
25°	1397.0	1387.1	1407.2	1402.8	1402.8
27.5°	1350.0	1342.9	1364.8	1360.2	1360.2
30°	1318.7	1311.6	1334.6	1328.8	1328.8
32.5°	1283.9	1279.0	1301.0	1294.0	1294.0
35°	1228.7	1225.9	1247.6	1238.9	1238.9
37.5°	1171.9	1169.3	1189.0	1178.5	1175.1
40°	1130.1	1128.7	1146.0	1134.4	1134.4
42.5°	1088.3	1086.9	1101.9	1088.0	1088.0
45°	1024.2	1021.4	1031.4	1018.3	1015.5
47.5°	954.3	951.4	957.7	943.5	942.1
50°	906.7	903.8	906.7	893.6	892.2
52.5°	857.9	852.8	853.3	840.2	840.0
55°	783.4	773.4	773.2	761.6	761.6
57.5°	704.5	691.4	692.6	682.7	681.2
60°	649.9	635.7	636.9	628.1	626.7
62.5°	596.5	580.1	583.5	573.6	573.3
65°	507.7	496.4	497.6	493.2	493.2
67.5°	422.4	411.9	419.5	416.1	415.8
70°	359.8	352.7	362.7	362.6	361.2
72.5°	301.7	301.5	313.9	313.9	314.8
75°	219.1	229.0	242.3	243.7	243.7
77.5°	146.2	163.8	178.4	179.0	178.7
80°	104.4	124.3	137.8	140.7	139.3
82.5°	70.8	91.8	103.0	105.9	104.4
85°	31.9	48.9	58.0	59.4	58.0
87.5°	9.3	19.5	23.2	23.2	20.9
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)