

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

Brand: CORELITE

Report Number: P601238

Luminaire Tested: 14D3X-LP-40-L935

Issue Date: 10/6/2023

Test Information

Test Method: LM-79-2019
Report Number: P601238
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2307-104-5)
Test Lab: INNOVATION CENTER
Issue Date: 10/6/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 14D3X-LP-40-L935
Description: 1x4 D3X-LP AT 4000lm 3500K 90CRI
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

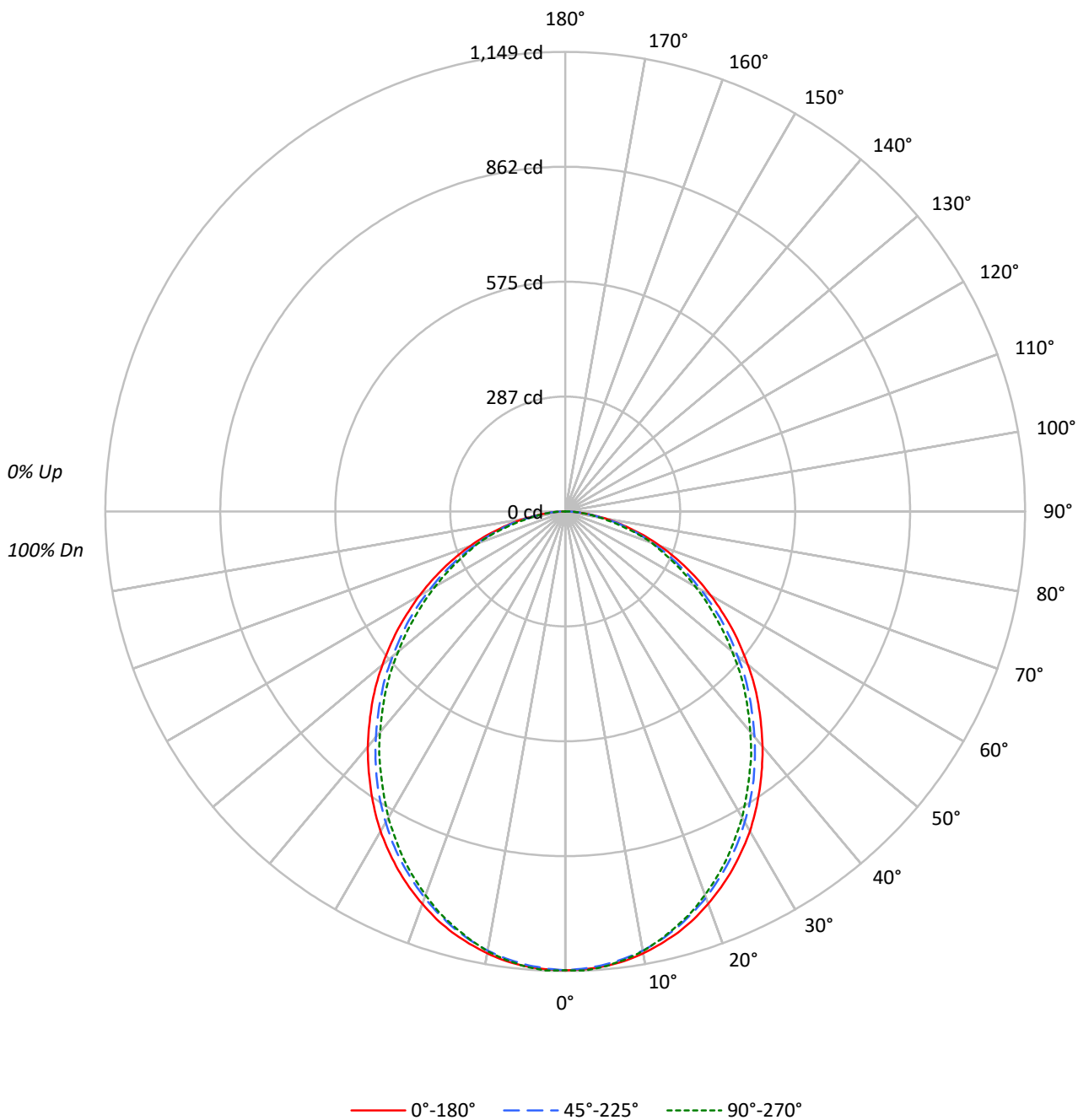
Lumens per Lamp: N/A
Luminaire Lumens: 2838.0 lumens
Efficiency: N/A
Efficacy: 75.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.27
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 37.8
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	100	97	106	102	99	95	98	95	92	94	92	89	91	89	87	85
2	100	92	85	79	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	67	63	60
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52
5	77	65	56	49	75	63	55	49	61	54	48	59	53	48	58	52	47	45
6	71	58	50	43	69	57	49	43	56	48	43	54	47	42	52	47	42	40
7	66	53	44	38	65	52	44	38	51	43	38	49	43	38	48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	39	34	44	38	34	32
9	58	45	37	31	56	44	36	31	43	36	31	42	35	31	41	35	31	29
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3087	3087	3087
5°	3083	3072	3085
10°	3065	3047	3051
15°	3036	3002	2992
20°	2990	2943	2922
25°	2934	2872	2841
30°	2869	2788	2746
35°	2783	2694	2636
40°	2695	2585	2527
45°	2599	2474	2414
50°	2493	2353	2278
55°	2385	2241	2146
60°	2261	2105	2020
65°	2134	1972	1887
70°	1985	1838	1814
75°	1785	1699	1575
80°	1573	1469	1353
85°	1266	1266	1244

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2599 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.1	3.8
10°-20°	304.3	10.7
20°-30°	446.2	15.7
30°-40°	514.0	18.1
40°-50°	504.4	17.8
50°-60°	429.1	15.1
60°-70°	310.3	10.9
70°-80°	173.4	6.1
80°-90°	48.3	1.7
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°	858.6	30.3
0°-40°	1372.6	48.4
0°-60°	2306.1	81.3
0°-90°	2838.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2838.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1147	1147	1147	1147	1147	
5°	1141	1141	1137	1141	1142	108
15°	1090	1086	1078	1076	1074	307
25°	988	980	967	960	957	455
35°	847	836	820	808	802	530
45°	683	670	650	637	634	527
55°	508	495	478	464	458	454
65°	335	326	310	298	296	332
75°	172	169	163	154	152	184
85°	41	43	41	40	40	49
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1147.1	1147.1	1147.1	1147.1	1147.1
2.5°	1145.6	1145.6	1143.4	1147.9	1148.6
5°	1141.2	1141.2	1137.4	1141.2	1141.9
7.5°	1133.7	1132.2	1127.7	1130.7	1130.7
10°	1121.8	1120.3	1115.0	1115.8	1116.5
12.5°	1106.8	1104.6	1097.9	1097.1	1096.4
15°	1089.7	1085.9	1077.7	1076.2	1074.0
17.5°	1068.8	1063.5	1053.8	1051.6	1050.1
20°	1044.1	1037.4	1027.7	1022.5	1020.3
22.5°	1017.3	1009.8	997.9	992.6	989.7
25°	988.2	980.0	967.3	959.8	956.8
27.5°	956.1	947.1	933.7	924.0	920.2
30°	923.2	912.0	897.1	887.4	883.7
32.5°	885.9	874.0	859.8	847.8	842.6
35°	847.1	835.9	820.2	807.5	802.3
37.5°	807.5	797.1	778.4	767.2	763.5
40°	767.2	755.3	735.9	722.5	719.5
42.5°	724.7	714.3	692.6	681.4	676.2
45°	682.9	669.5	650.1	637.4	634.4
47.5°	640.4	625.4	608.3	594.1	590.4
50°	595.6	582.1	562.0	549.3	544.1
52.5°	551.5	539.6	519.5	505.3	501.5
55°	508.3	494.8	477.7	464.2	457.5
57.5°	462.7	452.3	434.4	421.7	416.5
60°	420.2	408.3	391.1	380.6	375.4
62.5°	376.9	365.0	350.8	339.6	335.1
65°	335.1	326.2	309.7	297.8	296.3
67.5°	293.3	285.9	271.7	259.7	260.5
70°	252.3	245.5	233.6	226.1	230.6
72.5°	213.5	209.7	196.3	191.1	193.3
75°	171.7	169.4	163.4	153.7	151.5
77.5°	136.6	138.1	131.4	119.4	116.4
80°	101.5	105.2	94.8	91.1	87.3
82.5°	70.2	75.4	66.4	63.4	61.9
85°	41.0	43.3	41.0	40.3	40.3
87.5°	17.2	20.2	20.2	20.9	21.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)