

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: P601227

Luminaire Tested: 14D3X-LP-30-L940

Issue Date: 10/6/2023

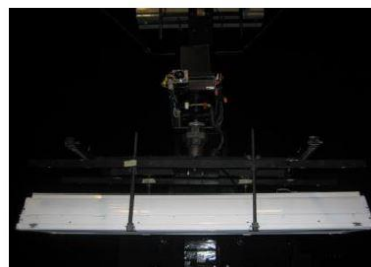
Test Information

Test Method: LM-79-2019
Report Number: P601227
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-30-L940
Description: 1x4 D3X-LP AT 3000lm 4000K 90CRI
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

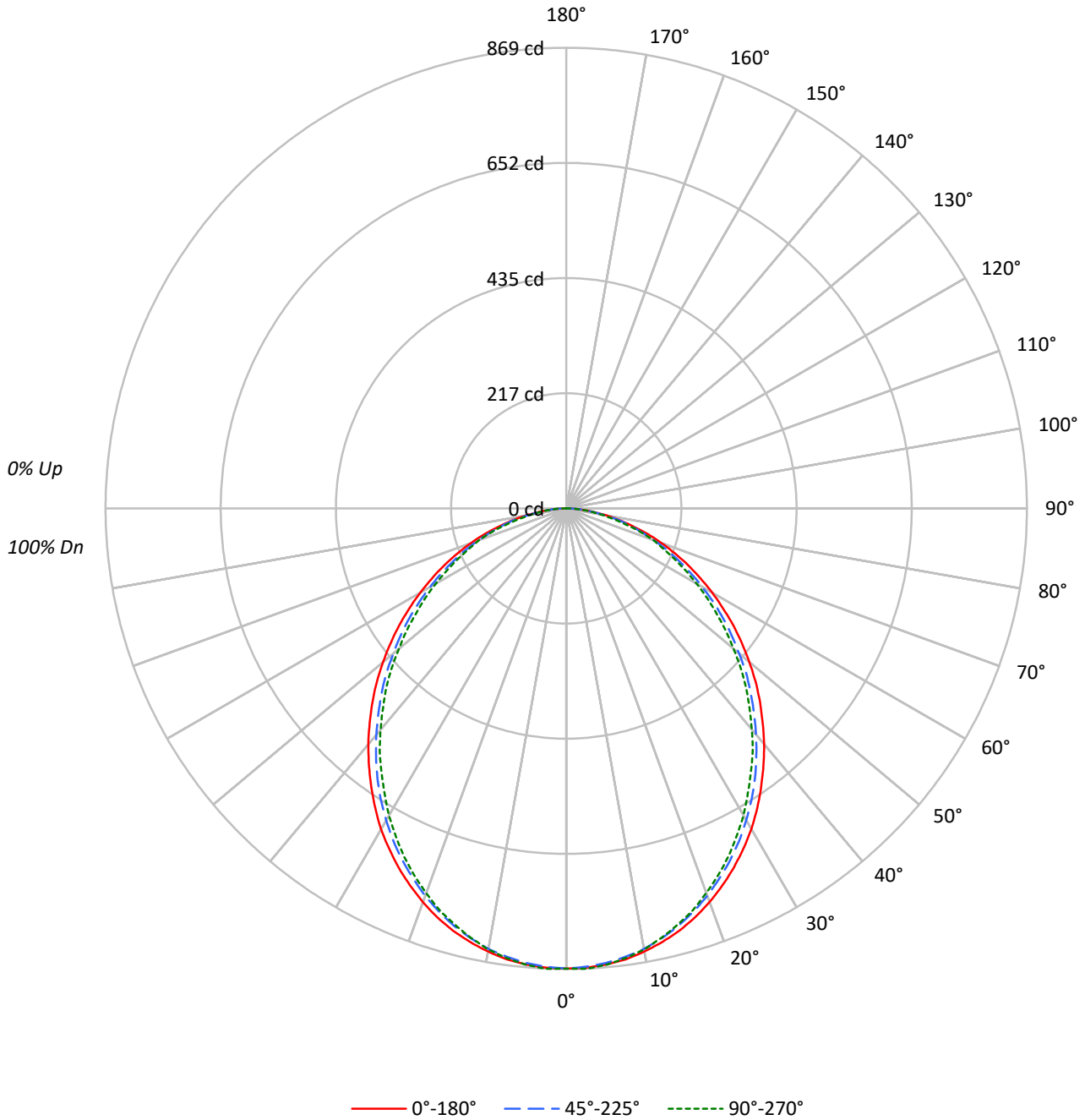
Lumens per Lamp: N/A
Luminaire Lumens: 2148.0 lumens
Efficiency: N/A
Efficacy: 79.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.27
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 27
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°	2336	2336	2336
5°	2333	2326	2335
10°	2320	2306	2309
15°	2298	2272	2265
20°	2263	2228	2211
25°	2221	2174	2150
30°	2171	2110	2078
35°	2106	2039	1995
40°	2040	1957	1913
45°	1967	1872	1827
50°	1887	1781	1724
55°	1805	1696	1625
60°	1711	1593	1529
65°	1615	1493	1428
70°	1502	1391	1374
75°	1351	1286	1193
80°	1190	1111	1024
85°	960	960	942

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1967 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.8	3.8
10°-20°	230.3	10.7
20°-30°	337.7	15.7
30°-40°	389.0	18.1
40°-50°	381.7	17.8
50°-60°	324.8	15.1
60°-70°	234.8	10.9
70°-80°	131.2	6.1
80°-90°	36.6	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°	649.9	30.3
0°-40°	1038.9	48.4
0°-60°	1745.4	81.3
0°-90°	2148.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2148.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	868	868	868	868	868	
5°	864	864	861	864	864	82
15°	825	822	816	815	813	232
25°	748	742	732	726	724	344
35°	641	633	621	611	607	401
45°	517	507	492	482	480	399
55°	385	374	362	351	346	344
65°	254	247	234	225	224	251
75°	130	128	124	116	115	139
85°	31	33	31	30	30	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	868.2	868.2	868.2	868.2	868.2
2.5°	867.1	867.1	865.4	868.8	869.4
5°	863.7	863.7	860.9	863.7	864.3
7.5°	858.1	856.9	853.5	855.8	855.8
10°	849.0	847.9	843.9	844.5	845.1
12.5°	837.7	836.0	830.9	830.4	829.8
15°	824.7	821.9	815.7	814.6	812.9
17.5°	808.9	805.0	797.6	795.9	794.8
20°	790.3	785.2	777.9	773.9	772.2
22.5°	769.9	764.3	755.3	751.3	749.0
25°	747.9	741.7	732.1	726.4	724.2
27.5°	723.6	716.8	706.7	699.3	696.5
30°	698.8	690.3	679.0	671.7	668.8
32.5°	670.5	661.5	650.8	641.7	637.8
35°	641.1	632.7	620.8	611.2	607.3
37.5°	611.2	603.3	589.2	580.7	577.9
40°	580.7	571.7	557.0	546.8	544.6
42.5°	548.5	540.6	524.2	515.7	511.8
45°	516.9	506.7	492.0	482.4	480.2
47.5°	484.7	473.4	460.4	449.7	446.8
50°	450.8	440.6	425.4	415.8	411.8
52.5°	417.5	408.4	393.2	382.4	379.6
55°	384.7	374.5	361.5	351.4	346.3
57.5°	350.2	342.3	328.8	319.2	315.2
60°	318.0	309.0	296.0	288.1	284.1
62.5°	285.3	276.2	265.5	257.0	253.6
65°	253.6	246.9	234.4	225.4	224.3
67.5°	222.0	216.4	205.6	196.6	197.1
70°	190.9	185.8	176.8	171.2	174.6
72.5°	161.6	158.7	148.6	144.6	146.3
75°	129.9	128.2	123.7	116.4	114.7
77.5°	103.4	104.5	99.4	90.4	88.1
80°	76.8	79.6	71.7	68.9	66.1
82.5°	53.1	57.1	50.3	48.0	46.9
85°	31.1	32.8	31.1	30.5	30.5
87.5°	13.0	15.3	15.3	15.8	16.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)