

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: P601082

Luminaire Tested: 22D3X-LP-20-L840

Issue Date: 10/5/2023

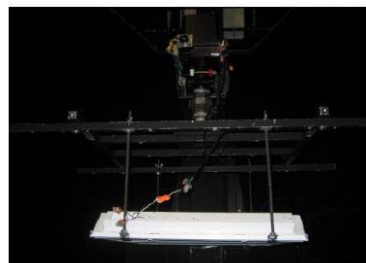
Test Information

Test Method: LM-79-2019
Report Number: P601082
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2307-104-1)
Test Lab: INNOVATION CENTER
Issue Date: 10/5/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 22D3X-LP-20-L840
Description: 2x2 D3X-LP AT 2000LM 4000K 80CRI
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

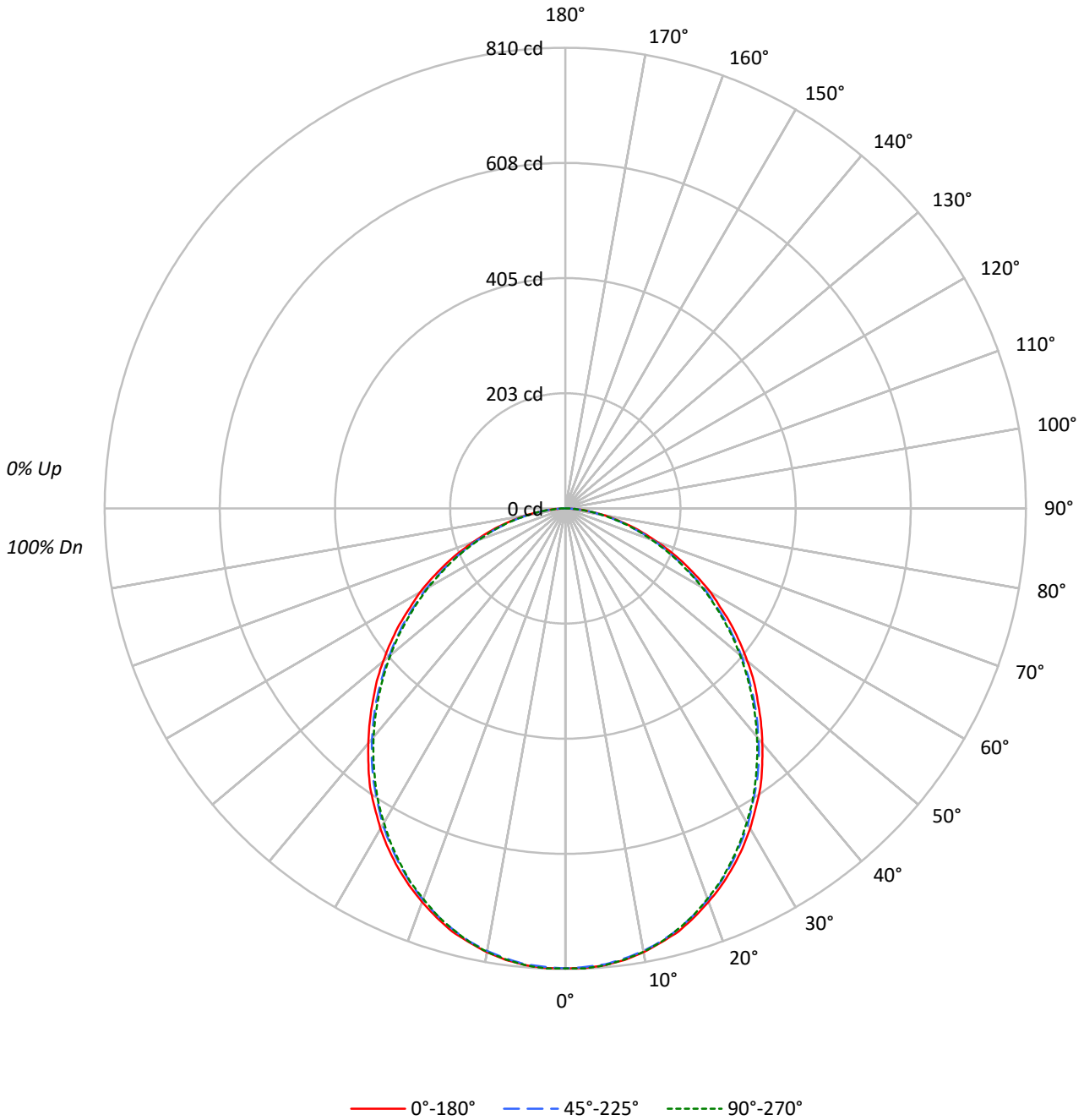
Lumens per Lamp: N/A
Luminaire Lumens: 2021.0 lumens
Efficiency: N/A
Efficacy: 125.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.29
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 16.1
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	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	
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	77	73	71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61
4	84	72	64	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52
5	77	65	56	49	75	64	55	49	61	54	49	59	53	48	58	52	48	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	36
8	62	49	40	34	60	48	40	34	47	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°	2176	2176	2176
5°	2178	2174	2178
10°	2166	2159	2164
15°	2145	2134	2134
20°	2109	2097	2092
25°	2069	2050	2042
30°	2020	1995	1982
35°	1966	1929	1916
40°	1893	1856	1842
45°	1821	1778	1763
50°	1750	1693	1680
55°	1670	1610	1587
60°	1587	1517	1496
65°	1477	1405	1390
70°	1350	1299	1268
75°	1231	1156	1164
80°	1062	998	1010
85°	821	797	747

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1821 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.4	3.8
10°-20°	216.0	10.7
20°-30°	318.1	15.7
30°-40°	368.0	18.2
40°-50°	361.8	17.9
50°-60°	308.4	15.3
60°-70°	220.9	10.9
70°-80°	120.0	5.9
80°-90°	31.3	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°	610.6	30.2
0°-40°	978.6	48.4
0°-60°	1648.8	81.6
0°-90°	2021.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2021.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	809	809	809	809	809	
5°	806	805	805	805	806	77
15°	770	767	766	765	766	217
25°	697	694	690	689	688	321
35°	598	594	587	584	583	373
45°	478	475	467	463	463	370
55°	356	350	343	339	338	318
65°	232	227	221	218	218	230
75°	118	114	111	110	112	125
85°	27	27	26	25	24	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	808.8	808.8	808.8	808.8	808.8
2.5°	808.8	807.9	807.1	807.9	809.6
5°	806.3	804.7	804.7	804.7	806.3
7.5°	800.7	799.1	798.3	799.1	799.9
10°	792.6	791.0	790.2	791.0	791.8
12.5°	781.4	780.6	779.8	779.8	780.6
15°	770.1	766.9	766.1	765.3	766.1
17.5°	754.0	753.2	750.0	750.0	750.0
20°	736.3	734.6	732.2	730.6	730.6
22.5°	717.7	716.1	712.1	710.5	711.3
25°	696.8	693.6	690.3	688.7	687.9
27.5°	674.2	671.0	666.2	663.8	663.8
30°	650.1	647.6	642.0	638.8	638.0
32.5°	623.5	621.9	613.8	612.2	612.2
35°	598.5	593.7	587.2	584.0	583.2
37.5°	568.7	565.5	559.0	555.0	554.2
40°	538.9	534.9	528.4	525.2	524.4
42.5°	509.1	505.1	498.6	494.6	493.8
45°	478.5	475.3	467.2	463.2	463.2
47.5°	449.5	443.0	435.8	432.6	431.8
50°	418.1	412.4	404.4	401.2	401.2
52.5°	386.7	382.6	373.8	372.2	370.5
55°	356.0	349.6	343.2	339.1	338.3
57.5°	323.0	317.4	310.9	307.7	307.7
60°	294.8	287.6	281.9	277.9	277.9
62.5°	262.6	256.2	250.5	248.1	247.3
65°	232.0	227.2	220.7	218.3	218.3
67.5°	201.4	197.4	191.7	189.3	190.1
70°	171.6	169.2	165.1	161.9	161.1
72.5°	144.2	141.0	136.9	136.1	136.1
75°	118.4	114.4	111.2	109.6	112.0
77.5°	91.8	89.4	87.8	87.0	87.8
80°	68.5	65.2	64.4	65.2	65.2
82.5°	47.5	45.9	45.1	45.1	45.1
85°	26.6	26.6	25.8	25.0	24.2
87.5°	10.5	10.5	11.3	11.3	12.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)