

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P298007

Luminaire Tested: **D3X-WD-20L82765-LD5-UNV-22-T1-W2A-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P298007
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-5)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WD-20L82765-LD5-UNV-22-T1-W2A-6500K
Description: D3X LED 2x2 TUNABLE WHITE TROFFER
WITH ROUND PERF LENS
Light Source: (252) 80 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1940.0 lumens
Efficiency: N/A
Efficacy: 120.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.32 / 1.37
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

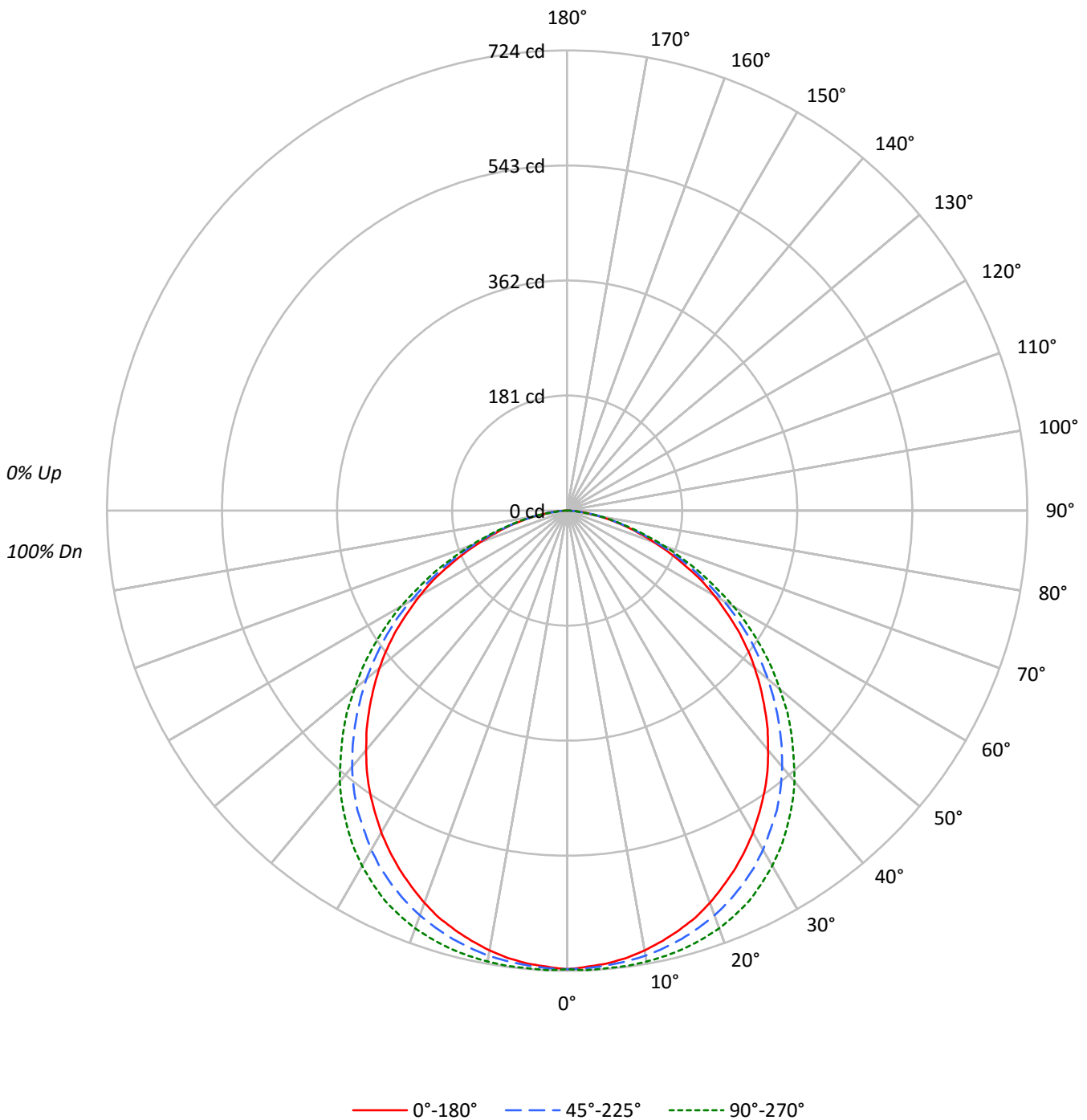
Input Watts (W): 16.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	87	81	77	83	79	75	80	77	74	72
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63	61
4	84	72	63	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31
9	57	44	36	31	56	44	36	31	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	27	37	32	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1942	1942	1942
5°	1932	1941	1952
10°	1920	1943	1969
15°	1902	1943	1987
20°	1881	1941	2003
25°	1851	1932	2012
30°	1817	1914	2005
35°	1777	1890	1986
40°	1728	1849	1955
45°	1673	1792	1899
50°	1613	1727	1827
55°	1538	1641	1744
60°	1439	1528	1630
65°	1303	1383	1470
70°	1150	1208	1274
75°	988	1010	1053
80°	793	809	826
85°	580	516	516



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.4	3.5
10°-20°	197.0	10.2
20°-30°	299.6	15.4
30°-40°	358.5	18.5
40°-50°	362.4	18.7
50°-60°	311.9	16.1
60°-70°	215.3	11.1
70°-80°	104.4	5.4
80°-90°	22.7	1.2
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°	565.0	29.1
0°-40°	923.4	47.6
0°-60°	1597.6	82.4
0°-90°	1940.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1940.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	722	722	722	722	722	
5°	715	716	718	722	723	68
15°	683	687	698	708	713	193
25°	623	631	651	670	678	287
35°	541	550	575	596	605	338
45°	440	448	471	491	499	339
55°	328	333	350	366	372	292
65°	205	208	217	227	231	204
75°	95	93	97	100	101	101
85°	19	19	17	17	17	23
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	721.6	721.6	721.6	721.6	721.6
2.5°	718.4	718.4	720.5	722.6	723.7
5°	715.3	716.3	718.4	721.6	722.6
7.5°	710.1	711.1	715.3	720.5	722.6
10°	702.8	704.9	711.1	717.4	720.5
12.5°	693.4	697.5	704.9	713.2	717.4
15°	682.9	687.1	697.5	708.0	713.2
17.5°	671.4	675.6	688.2	701.7	706.9
20°	656.8	663.1	677.7	693.4	699.6
22.5°	640.1	648.5	665.2	681.9	689.2
25°	623.4	630.7	650.6	670.4	677.7
27.5°	604.6	613.0	634.9	654.7	662.0
30°	584.8	593.1	616.1	638.0	645.3
32.5°	562.8	573.3	595.2	618.2	626.5
35°	540.9	550.3	575.4	596.3	604.6
37.5°	517.9	526.3	551.4	573.3	581.6
40°	491.8	501.2	526.3	548.2	556.6
42.5°	466.8	476.2	499.1	520.0	527.3
45°	439.6	448.0	470.9	490.8	499.1
47.5°	412.5	421.9	441.7	461.6	469.9
50°	385.3	392.6	412.5	431.3	436.5
52.5°	357.1	363.4	381.1	397.9	405.2
55°	327.9	333.1	349.8	365.5	371.7
57.5°	296.6	302.8	318.5	330.0	337.3
60°	267.3	270.5	284.0	295.5	302.8
62.5°	238.1	239.1	249.6	261.1	265.2
65°	204.7	207.8	217.2	226.6	230.8
67.5°	174.4	177.5	184.8	192.1	195.3
70°	146.2	146.2	153.5	158.7	161.9
72.5°	118.0	119.0	124.3	127.4	130.5
75°	95.0	92.9	97.1	100.2	101.3
77.5°	71.0	70.0	73.1	74.1	76.2
80°	51.2	51.2	52.2	53.3	53.3
82.5°	33.4	33.4	34.5	32.4	31.3
85°	18.8	18.8	16.7	16.7	16.7
87.5°	6.3	6.3	6.3	7.3	6.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)