

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: P297972

Luminaire Tested: **D3X-WD-20L83050-LD5-UNV-22-T1-W2A-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297972
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-20L83050-LD5-UNV-22-T1-W2A-4500K
Description: D3X LED 2x2 TUNABLE WHITE TROFFER
WITH ROUND PERF LENS
Light Source: (252) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1967.0 lumens
Efficiency: N/A
Efficacy: 121.4 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

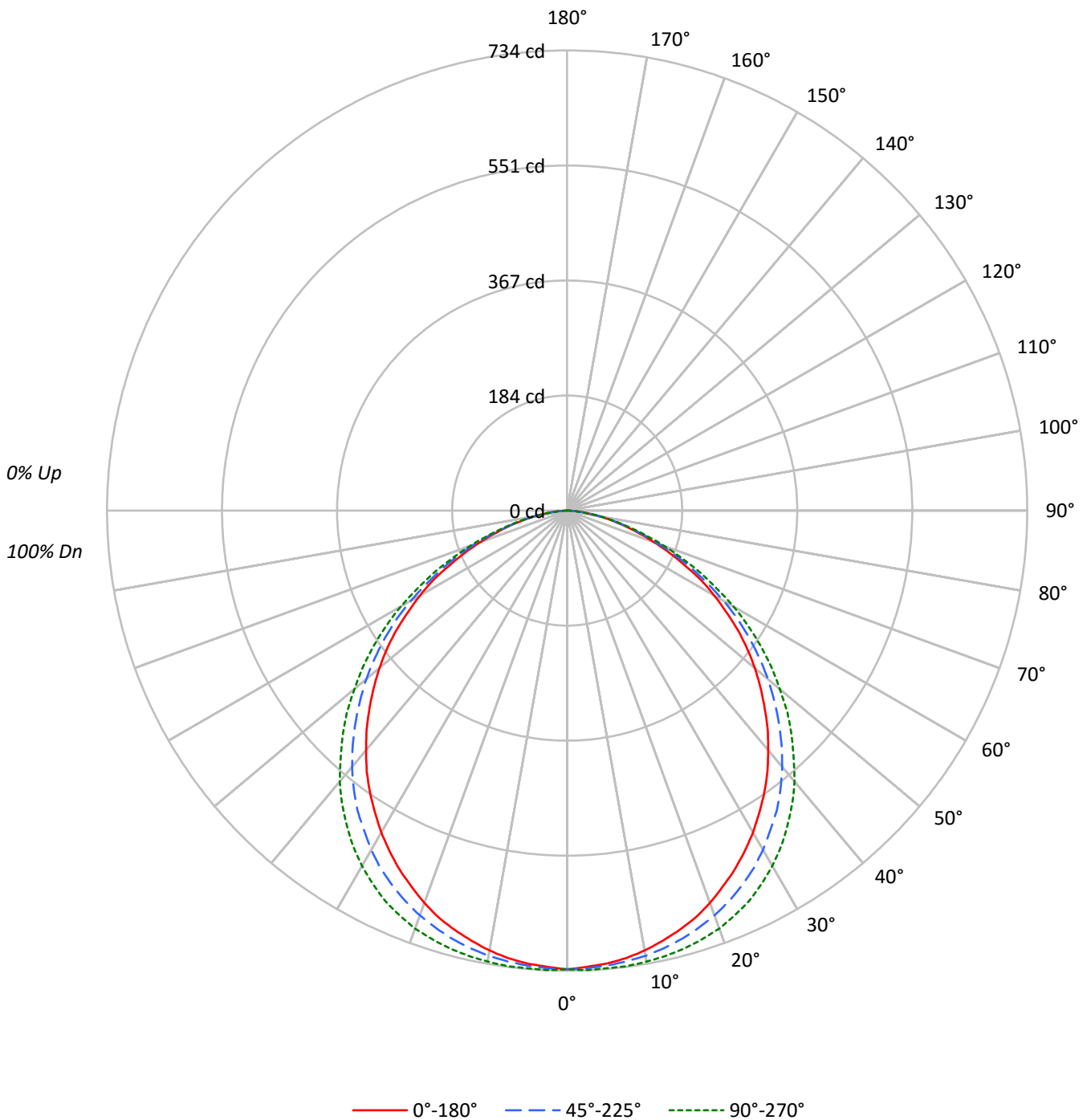
Input Watts (W): 16.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1969	1969	1969
5°	1959	1968	1979
10°	1947	1970	1996
15°	1929	1970	2014
20°	1907	1968	2031
25°	1877	1958	2040
30°	1842	1941	2033
35°	1802	1917	2014
40°	1752	1874	1982
45°	1696	1817	1926
50°	1636	1751	1853
55°	1560	1664	1768
60°	1459	1550	1652
65°	1321	1402	1490
70°	1166	1224	1291
75°	1001	1024	1068
80°	804	820	837
85°	590	522	522



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.3	3.5
10°-20°	199.7	10.2
20°-30°	303.8	15.4
30°-40°	363.4	18.5
40°-50°	367.4	18.7
50°-60°	316.2	16.1
60°-70°	218.3	11.1
70°-80°	105.8	5.4
80°-90°	23.0	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°	572.8	29.1
0°-40°	936.3	47.6
0°-60°	1619.9	82.4
0°-90°	1967.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1967.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	732	732	732	732	732	
5°	725	726	728	732	733	69
15°	692	697	707	718	723	195
25°	632	640	660	680	687	291
35°	548	558	583	605	613	343
45°	446	454	478	498	506	344
55°	332	338	355	371	377	296
65°	208	211	220	230	234	206
75°	96	94	98	102	103	102
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°	731.6	731.6	731.6	731.6	731.6
2.5°	728.4	728.4	730.5	732.7	733.7
5°	725.3	726.3	728.4	731.6	732.7
7.5°	720.0	721.0	725.3	730.5	732.7
10°	712.6	714.7	721.0	727.4	730.5
12.5°	703.0	707.3	714.7	723.1	727.4
15°	692.4	696.7	707.3	717.8	723.1
17.5°	680.8	685.0	697.7	711.5	716.8
20°	666.0	672.3	687.1	703.0	709.4
22.5°	649.0	657.5	674.4	691.4	698.8
25°	632.1	639.5	659.6	679.7	687.1
27.5°	613.0	621.5	643.7	663.8	671.3
30°	592.9	601.4	624.7	646.9	654.3
32.5°	570.7	581.3	603.5	626.8	635.3
35°	548.4	558.0	583.4	604.6	613.0
37.5°	525.1	533.6	559.0	581.3	589.7
40°	498.7	508.2	533.6	555.9	564.3
42.5°	473.3	482.8	506.1	527.3	534.7
45°	445.7	454.2	477.5	497.6	506.1
47.5°	418.2	427.7	447.9	468.0	476.4
50°	390.7	398.1	418.2	437.3	442.6
52.5°	362.1	368.5	386.5	403.4	410.8
55°	332.5	337.7	354.7	370.6	376.9
57.5°	300.7	307.0	322.9	334.6	342.0
60°	271.0	274.2	288.0	299.6	307.0
62.5°	241.4	242.5	253.0	264.7	268.9
65°	207.5	210.7	220.2	229.8	234.0
67.5°	176.8	180.0	187.4	194.8	198.0
70°	148.2	148.2	155.6	160.9	164.1
72.5°	119.6	120.7	126.0	129.2	132.3
75°	96.3	94.2	98.5	101.6	102.7
77.5°	72.0	70.9	74.1	75.2	77.3
80°	51.9	51.9	52.9	54.0	54.0
82.5°	33.9	33.9	34.9	32.8	31.8
85°	19.1	19.1	16.9	16.9	16.9
87.5°	6.4	6.4	6.4	7.4	6.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)