

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: P298089

Luminaire Tested: **D3X-WD-20L92765-LD5-UNV-22-T1-W2A-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P298089
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-20L92765-LD5-UNV-22-T1-W2A-5500K
Description: D3X LED 2x2 TUNABLE WHITE TROFFER
WITH ROUND PERF LENS
Light Source: (252) 90 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1742.0 lumens
Efficiency: N/A
Efficacy: 109.6 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

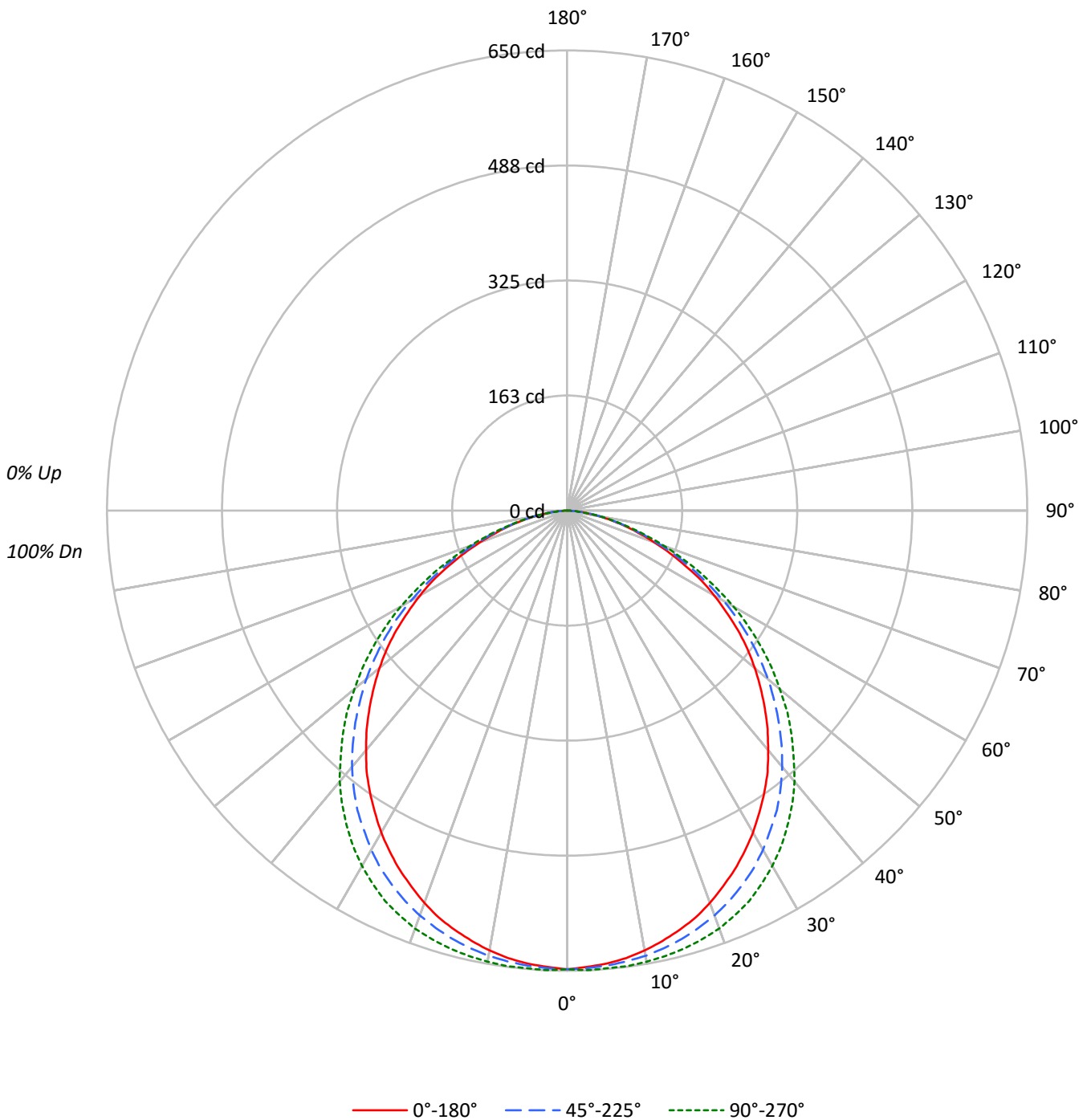
Input Watts (W): 15.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1743	1743	1743
5°	1735	1743	1753
10°	1724	1745	1768
15°	1708	1745	1784
20°	1689	1743	1799
25°	1662	1735	1807
30°	1632	1719	1801
35°	1596	1697	1783
40°	1551	1660	1756
45°	1502	1609	1706
50°	1449	1551	1641
55°	1381	1474	1566
60°	1292	1372	1463
65°	1170	1242	1319
70°	1033	1084	1143
75°	887	907	946
80°	711	727	741
85°	522	463	463



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.4	3.5
10°-20°	176.9	10.2
20°-30°	269.0	15.4
30°-40°	321.9	18.5
40°-50°	325.4	18.7
50°-60°	280.0	16.1
60°-70°	193.3	11.1
70°-80°	93.7	5.4
80°-90°	20.3	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°	507.3	29.1
0°-40°	829.2	47.6
0°-60°	1434.6	82.4
0°-90°	1742.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1742.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	648	648	648	648	648	
5°	642	643	645	648	649	61
15°	613	617	626	636	640	173
25°	560	566	584	602	608	258
35°	486	494	517	535	543	304
45°	395	402	423	441	448	305
55°	294	299	314	328	334	262
65°	184	187	195	204	207	183
75°	85	84	87	90	91	91
85°	17	17	15	15	15	21
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	647.9	647.9	647.9	647.9	647.9
2.5°	645.1	645.1	647.0	648.9	649.8
5°	642.3	643.2	645.1	647.9	648.9
7.5°	637.6	638.5	642.3	647.0	648.9
10°	631.0	632.9	638.5	644.2	647.0
12.5°	622.6	626.4	632.9	640.4	644.2
15°	613.2	617.0	626.4	635.7	640.4
17.5°	602.9	606.7	617.9	630.1	634.8
20°	589.8	595.4	608.5	622.6	628.2
22.5°	574.8	582.3	597.3	612.3	618.9
25°	559.8	566.3	584.2	602.0	608.5
27.5°	542.9	550.4	570.1	587.9	594.5
30°	525.1	532.6	553.2	572.9	579.5
32.5°	505.4	514.8	534.5	555.1	562.6
35°	485.7	494.1	516.6	535.4	542.9
37.5°	465.1	472.6	495.1	514.8	522.3
40°	441.6	450.1	472.6	492.3	499.8
42.5°	419.1	427.6	448.2	467.0	473.5
45°	394.8	402.3	422.9	440.7	448.2
47.5°	370.4	378.8	396.6	414.4	421.9
50°	346.0	352.6	370.4	387.3	391.9
52.5°	320.7	326.3	342.2	357.2	363.8
55°	294.4	299.1	314.1	328.2	333.8
57.5°	266.3	271.9	286.0	296.3	302.9
60°	240.0	242.9	255.0	265.4	271.9
62.5°	213.8	214.7	224.1	234.4	238.2
65°	183.8	186.6	195.0	203.5	207.2
67.5°	156.6	159.4	166.0	172.5	175.3
70°	131.3	131.3	137.8	142.5	145.3
72.5°	106.0	106.9	111.6	114.4	117.2
75°	85.3	83.5	87.2	90.0	91.0
77.5°	63.8	62.8	65.6	66.6	68.4
80°	45.9	45.9	46.9	47.8	47.8
82.5°	30.0	30.0	30.9	29.1	28.1
85°	16.9	16.9	15.0	15.0	15.0
87.5°	5.6	5.6	5.6	6.6	5.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)