

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: P298088

Luminaire Tested: **D3X-WD-20L92765-LD5-UNV-22-T1-W2A-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P298088
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-5000K
Description: D3X LED 2x2 TUNABLE WHITE TROFFER
WITH ROUND PERF LENS
Light Source: (252) 90 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1716.0 lumens
Efficiency: N/A
Efficacy: 108.6 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

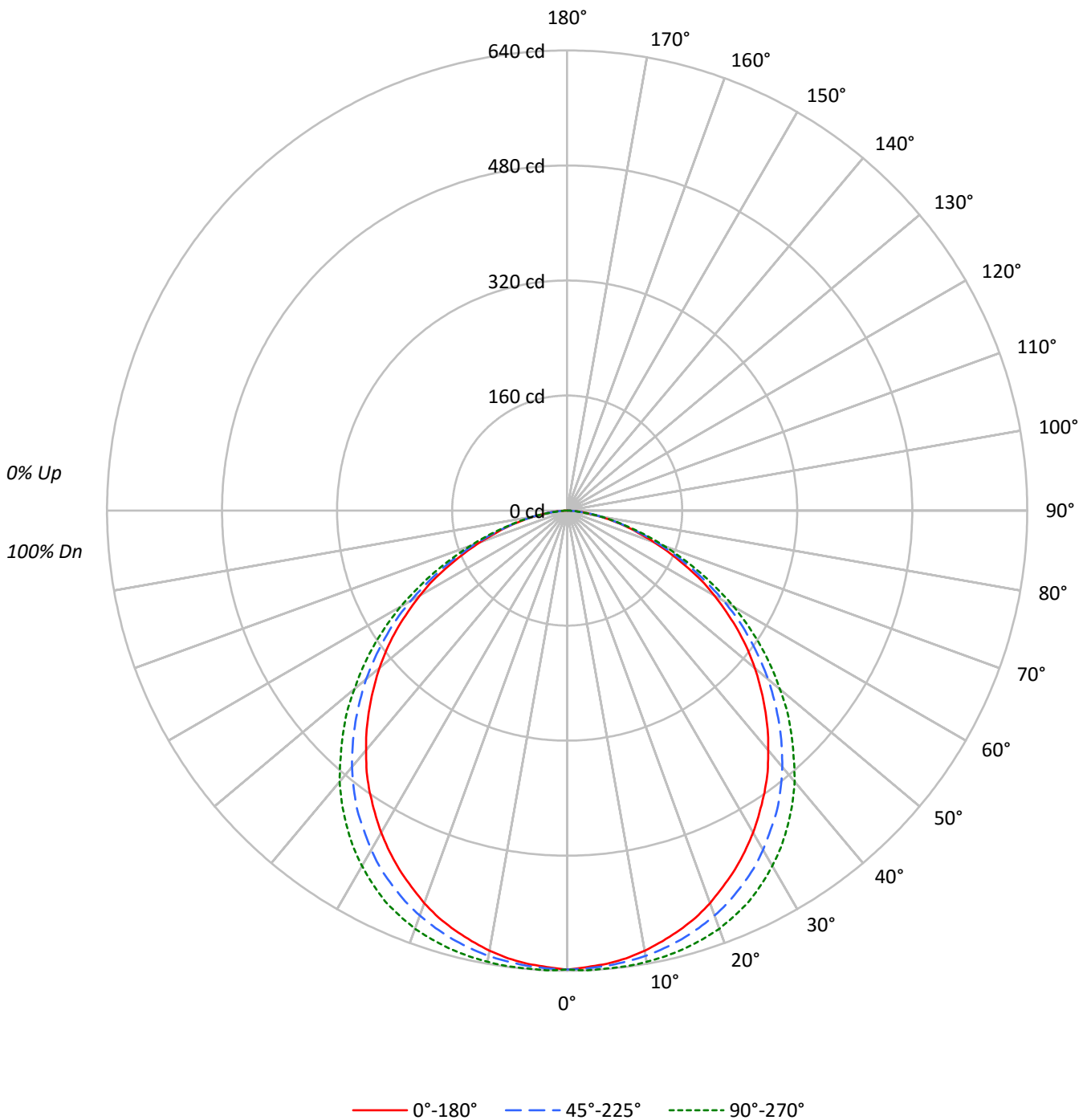
Input Watts (W): 15.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1718	1718	1718
5°	1709	1717	1727
10°	1699	1719	1741
15°	1683	1719	1758
20°	1664	1717	1772
25°	1637	1708	1780
30°	1607	1693	1774
35°	1572	1672	1757
40°	1528	1635	1729
45°	1480	1585	1680
50°	1427	1527	1616
55°	1361	1452	1543
60°	1273	1352	1442
65°	1152	1223	1300
70°	1017	1068	1127
75°	874	893	932
80°	702	716	730
85°	513	457	457



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.5	3.5
10°-20°	174.2	10.2
20°-30°	265.0	15.4
30°-40°	317.1	18.5
40°-50°	320.5	18.7
50°-60°	275.8	16.1
60°-70°	190.4	11.1
70°-80°	92.4	5.4
80°-90°	20.0	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°	499.7	29.1
0°-40°	816.8	47.6
0°-60°	1413.2	82.4
0°-90°	1716.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1716.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	638	638	638	638	638	
5°	633	634	636	638	639	60
15°	604	608	617	626	631	170
25°	551	558	575	593	600	254
35°	478	487	509	527	535	299
45°	389	396	417	434	442	300
55°	290	295	309	323	329	259
65°	181	184	192	200	204	180
75°	84	82	86	89	90	89
85°	17	17	15	15	15	20
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	638.3	638.3	638.3	638.3	638.3
2.5°	635.5	635.5	637.3	639.2	640.1
5°	632.7	633.6	635.5	638.3	639.2
7.5°	628.1	629.0	632.7	637.3	639.2
10°	621.6	623.5	629.0	634.6	637.3
12.5°	613.3	617.0	623.5	630.9	634.6
15°	604.1	607.8	617.0	626.2	630.9
17.5°	593.9	597.6	608.7	620.7	625.3
20°	581.0	586.5	599.5	613.3	618.9
22.5°	566.2	573.6	588.4	603.2	609.6
25°	551.4	557.9	575.4	593.0	599.5
27.5°	534.8	542.2	561.6	579.1	585.6
30°	517.3	524.6	545.0	564.4	570.8
32.5°	497.9	507.1	526.5	546.8	554.2
35°	478.5	486.8	508.9	527.4	534.8
37.5°	458.1	465.5	487.7	507.1	514.5
40°	435.0	443.4	465.5	484.9	492.3
42.5°	412.9	421.2	441.5	460.0	466.4
45°	388.9	396.3	416.6	434.1	441.5
47.5°	364.8	373.2	390.7	408.3	415.6
50°	340.8	347.3	364.8	381.5	386.1
52.5°	315.9	321.4	337.1	351.9	358.4
55°	290.0	294.6	309.4	323.3	328.8
57.5°	262.3	267.9	281.7	291.9	298.3
60°	236.5	239.2	251.2	261.4	267.9
62.5°	210.6	211.5	220.8	230.9	234.6
65°	181.0	183.8	192.1	200.4	204.1
67.5°	154.3	157.0	163.5	170.0	172.7
70°	129.3	129.3	135.8	140.4	143.2
72.5°	104.4	105.3	109.9	112.7	115.5
75°	84.1	82.2	85.9	88.7	89.6
77.5°	62.8	61.9	64.7	65.6	67.4
80°	45.3	45.3	46.2	47.1	47.1
82.5°	29.6	29.6	30.5	28.6	27.7
85°	16.6	16.6	14.8	14.8	14.8
87.5°	5.5	5.5	5.5	6.5	5.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)