

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: P298255

Luminaire Tested: **D3X-WG-20L92765-LD5-UNV-22-T1-W2A-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P298255
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-6)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WG-20L92765-LD5-UNV-22-T1-W2A-4500K
Description: D3X LED 2x2 TUNABLE WHITE TROFFER
WITH RECTANGULAR PERF LENS
Light Source: (252) 90 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1705.0 lumens
Efficiency: N/A
Efficacy: 108.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.3 / 1.35
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

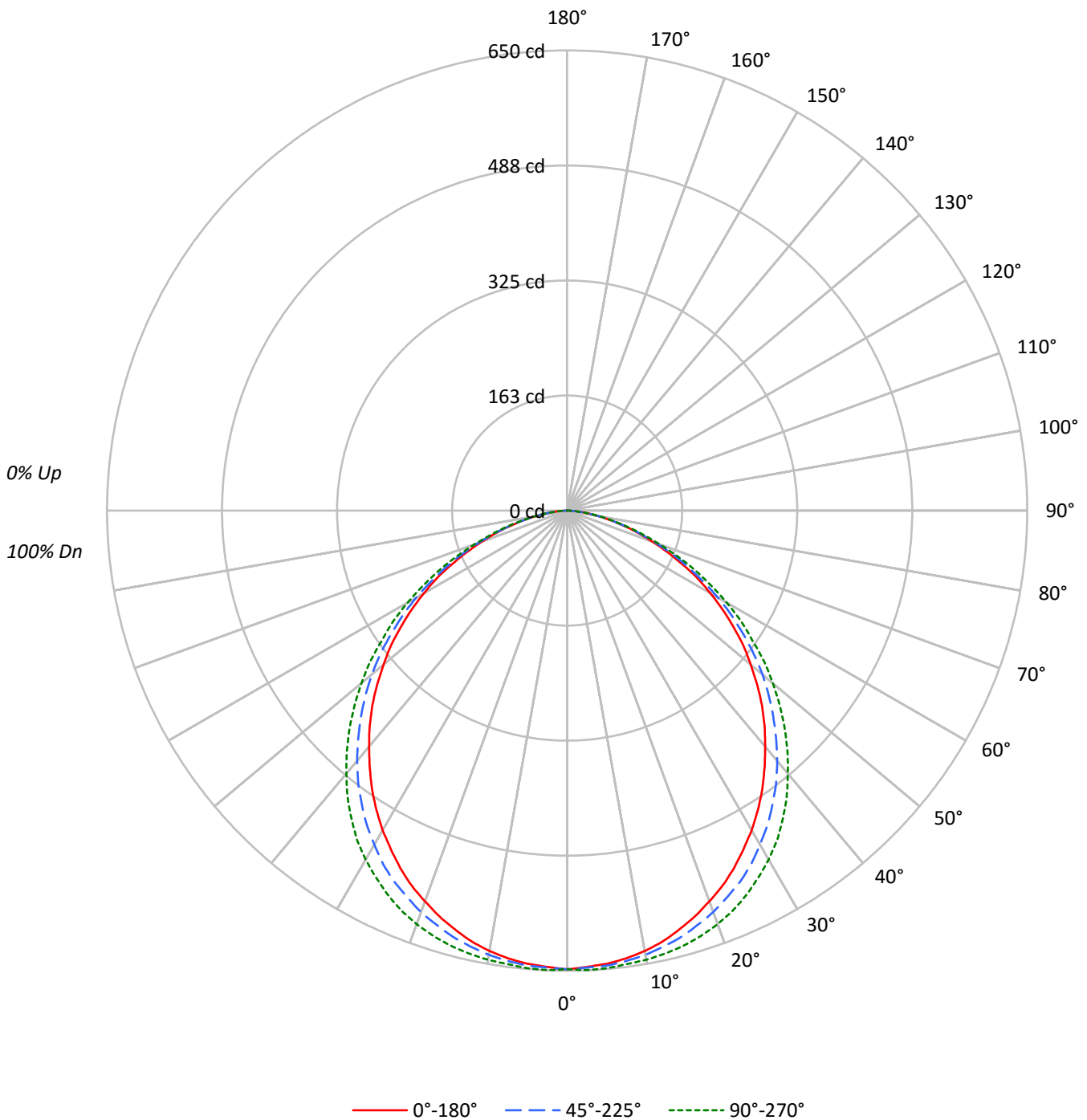
Input Watts (W): 15.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85					85			
2	100	92	86	80	97	90	84	79	87	82	77	83	79	76	80	77	74	72					72			
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	61					61			
4	84	72	64	57	82	71	63	57	68	61	56	66	60	55	64	59	54	52					52			
5	77	65	56	49	75	64	55	49	61	54	49	59	53	48	58	52	48	45					45			
6	71	58	50	43	69	57	49	43	56	48	43	54	47	42	52	47	42	40					40			
7	66	53	44	38	64	52	44	38	51	43	38	49	43	38	48	42	37	35					35			
8	62	48	40	34	60	48	40	34	46	39	34	45	39	34	44	38	34	32					32			
9	58	44	36	31	56	44	36	31	43	36	31	42	35	30	41	35	30	28					28			
10	54	41	33	28	53	40	33	28	40	33	28	39	32	28	38	32	28	26					26			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1743	1743	1743
5°	1736	1743	1753
10°	1726	1741	1761
15°	1707	1737	1772
20°	1682	1729	1780
25°	1655	1717	1779
30°	1620	1693	1769
35°	1578	1662	1745
40°	1529	1621	1704
45°	1481	1567	1653
50°	1417	1508	1587
55°	1346	1422	1498
60°	1257	1324	1403
65°	1147	1198	1268
70°	1004	1046	1090
75°	856	875	913
80°	687	700	716
85°	503	475	448



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.3	3.6
10°-20°	176.0	10.3
20°-30°	266.1	15.6
30°-40°	316.1	18.5
40°-50°	317.3	18.6
50°-60°	271.0	15.9
60°-70°	186.7	11.0
70°-80°	90.5	5.3
80°-90°	19.8	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°	503.5	29.5
0°-40°	819.5	48.1
0°-60°	1407.9	82.6
0°-90°	1705.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1705.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	648	648	648	648	648	
5°	642	642	645	647	649	61
15°	613	615	624	632	636	173
25°	557	562	578	594	599	257
35°	480	488	506	525	531	300
45°	389	395	412	429	434	300
55°	287	291	303	316	319	256
65°	180	180	188	196	199	178
75°	82	80	84	86	88	88
85°	16	16	15	14	14	20
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°	645.2	645.2	646.1	648.8	649.7
5°	642.5	642.5	645.2	647.0	648.8
7.5°	638.0	638.9	641.6	645.2	646.1
10°	631.7	632.6	637.1	641.6	644.3
12.5°	623.5	625.3	630.7	638.0	640.7
15°	612.6	615.4	623.5	631.7	636.2
17.5°	600.9	604.5	613.6	625.3	629.8
20°	587.3	591.8	603.6	616.3	621.7
22.5°	573.7	577.4	590.9	605.4	611.7
25°	557.4	562.0	578.3	593.6	599.1
27.5°	539.3	545.7	562.9	579.2	584.6
30°	521.2	526.7	544.8	562.9	569.2
32.5°	501.3	506.8	526.7	544.8	552.0
35°	480.5	487.8	505.9	524.9	531.2
37.5°	457.9	466.0	485.0	501.3	509.5
40°	435.3	442.5	461.5	478.7	485.0
42.5°	412.7	419.0	437.1	455.2	460.6
45°	389.1	394.6	411.7	428.9	434.4
47.5°	363.8	370.1	386.4	400.9	407.2
50°	338.4	344.8	360.2	373.7	379.2
52.5°	314.0	317.6	332.1	344.8	351.1
55°	286.9	291.4	303.2	315.8	319.4
57.5°	260.6	263.3	275.1	286.0	291.4
60°	233.5	235.3	246.1	254.3	260.6
62.5°	208.1	208.1	216.3	225.3	229.0
65°	180.1	180.1	188.2	196.4	199.1
67.5°	152.9	154.7	160.2	166.5	168.3
70°	127.6	127.6	133.0	137.6	138.5
72.5°	105.0	104.1	106.8	110.4	112.2
75°	82.3	80.5	84.2	86.0	87.8
77.5°	62.4	61.5	63.3	65.2	65.2
80°	44.3	43.4	45.2	45.2	46.2
82.5°	29.0	29.9	29.9	29.0	28.1
85°	16.3	16.3	15.4	14.5	14.5
87.5°	5.4	5.4	5.4	6.3	6.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)