

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: P297578

Luminaire Tested: **D3X-WD-23L82765-LD5-UNV-14-T1-W2A-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297578
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-2)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WD-23L82765-LD5-UNV-14-T1-W2A-4500K
Description: D3X LED 1x4 TUNABLE WHITE TROFFER
WITH ROUND PERF LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2283.0 lumens
Efficiency: N/A
Efficacy: 108.7 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.34 / 1.39
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

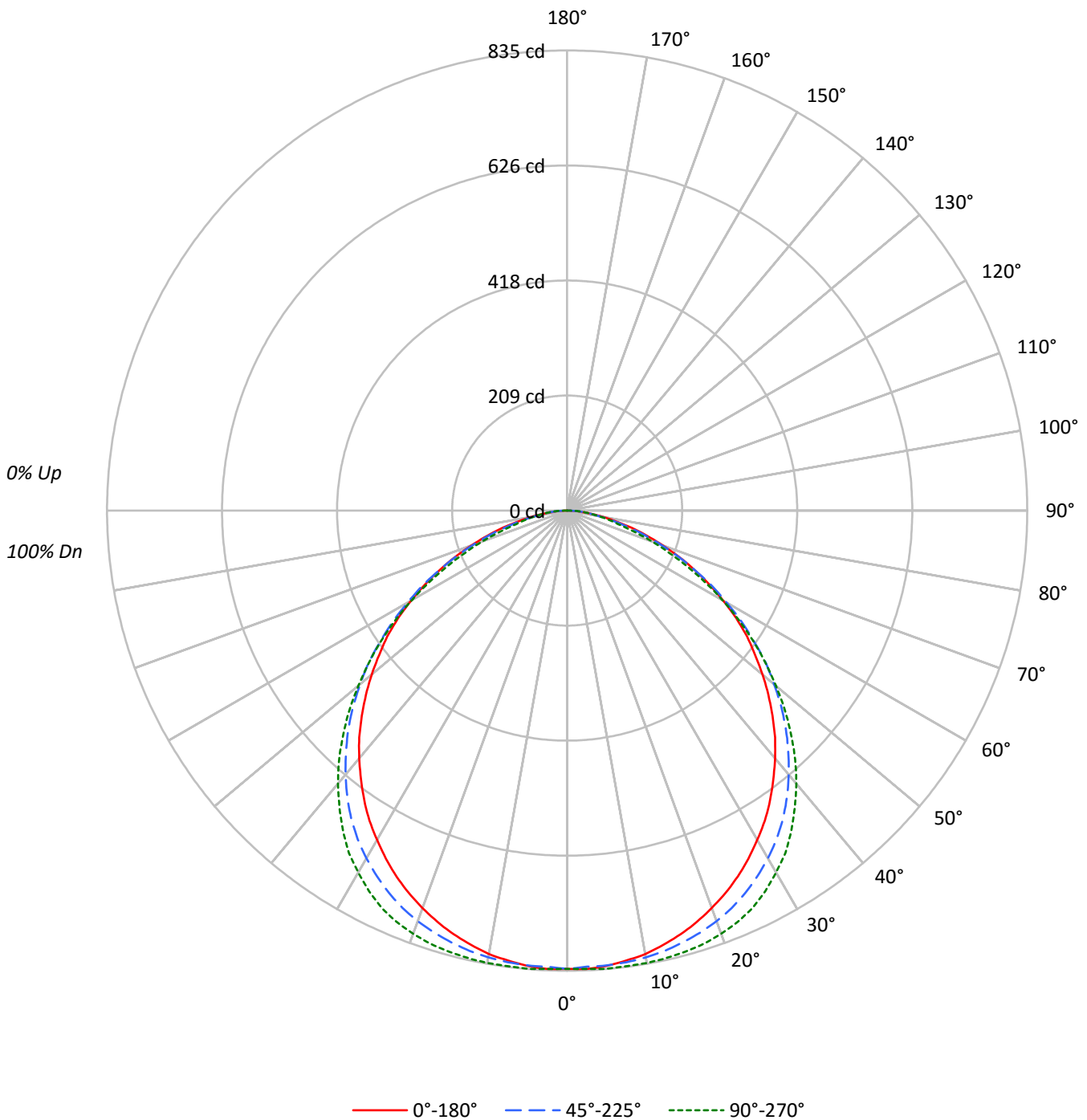
Input Watts (W): 21
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	92		94	92	90		91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77		83	79	75		80	77	74	71
3	91	81	73	67	89	79	72	66	76	70	65		74	68	64		71	67	63	61
4	84	72	63	57	81	71	63	56	68	61	56		66	60	55		64	58	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	30	42	35	30		41	35	30		40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	27		38	32	27		37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2238	2238	2238
5°	2241	2238	2254
10°	2233	2250	2278
15°	2217	2260	2308
20°	2198	2270	2340
25°	2176	2272	2363
30°	2144	2264	2356
35°	2109	2243	2330
40°	2062	2198	2273
45°	2005	2137	2187
50°	1937	2052	2069
55°	1870	1941	1932
60°	1760	1799	1755
65°	1622	1629	1538
70°	1452	1419	1291
75°	1261	1176	996
80°	1010	916	916
85°	722	849	880



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.1	3.5
10°-20°	229.5	10.1
20°-30°	352.5	15.4
30°-40°	424.5	18.6
40°-50°	429.0	18.8
50°-60°	365.9	16.0
60°-70°	250.5	11.0
70°-80°	120.9	5.3
80°-90°	31.1	1.4
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°	661.1	29.0
0°-40°	1085.6	47.6
0°-60°	1880.5	82.4
0°-90°	2283.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2283.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	832	832	832	832	832	
5°	830	830	828	834	835	79
15°	796	802	811	826	828	225
25°	733	744	765	788	796	337
35°	642	656	683	704	709	401
45°	527	541	562	575	575	406
55°	398	406	414	416	412	355
65°	255	258	256	247	242	253
75°	121	121	113	100	96	129
85°	23	26	28	28	28	29
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	831.6	831.6	831.6	831.6	831.6
2.5°	832.6	831.6	828.5	832.6	832.6
5°	829.5	829.5	828.5	833.6	834.6
7.5°	823.4	825.5	826.5	832.6	833.6
10°	817.3	819.3	823.4	831.6	833.6
12.5°	807.1	811.2	818.3	829.5	831.6
15°	795.9	802.0	811.2	825.5	828.5
17.5°	782.7	790.8	803.0	819.3	824.4
20°	767.4	776.5	792.8	811.2	817.3
22.5°	751.1	761.3	780.6	802.0	808.1
25°	732.7	743.9	765.3	787.8	795.9
27.5°	712.3	724.6	748.0	771.4	778.6
30°	689.9	703.2	728.6	752.1	758.2
32.5°	667.5	680.7	707.2	729.7	736.8
35°	642.0	656.3	682.8	704.2	709.3
37.5°	614.5	628.8	655.3	676.7	678.7
40°	587.0	601.3	625.7	645.1	647.1
42.5°	558.5	571.7	594.1	610.4	612.5
45°	526.9	541.1	561.5	574.8	574.8
47.5°	495.3	509.5	526.9	536.0	536.0
50°	462.7	475.9	490.2	495.3	494.3
52.5°	430.1	442.3	454.5	455.5	453.5
55°	398.5	405.6	413.7	415.8	411.7
57.5°	363.8	369.9	375.0	372.0	368.9
60°	327.1	333.2	334.3	329.2	326.1
62.5°	291.5	296.6	296.6	288.4	283.3
65°	254.8	257.8	255.8	246.6	241.5
67.5°	220.1	222.2	218.1	208.9	200.8
70°	184.5	185.5	180.4	169.2	164.1
72.5°	151.8	152.9	146.7	133.5	127.4
75°	121.3	121.3	113.1	99.9	95.8
77.5°	90.7	93.8	84.6	77.5	77.5
80°	65.2	68.3	59.1	60.1	59.1
82.5°	42.8	45.9	42.8	42.8	42.8
85°	23.4	25.5	27.5	28.5	28.5
87.5°	7.1	12.2	13.2	14.3	16.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)