

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: P297718

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297718
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-3)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WG-23L82765-LD5-UNV-14-T1-W2A-4500K
Description: D3X LED 1x4 TUNABLE WHITE TROFFER
WITH RECTANGULAR PERF LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2279.0 lumens
Efficiency: N/A
Efficacy: 108.5 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.29 / 1.36
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

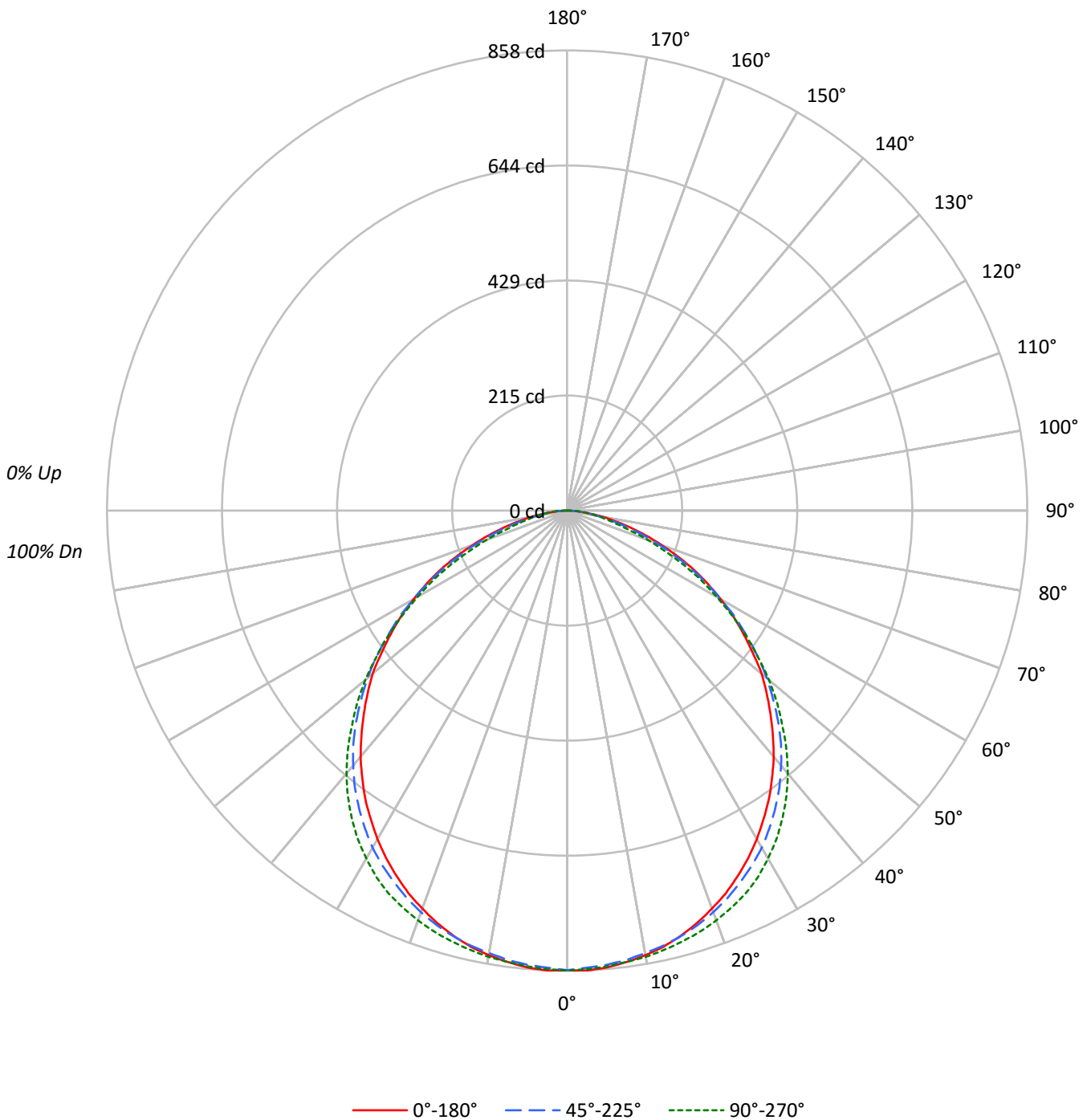
Input Watts (W): 21
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	93	95	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	87	82	77	83	79	75	80	77	74	72
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	61
4	84	72	64	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52
5	77	65	56	49	75	63	55	49	61	54	48	59	53	48	58	52	47	45
6	71	58	49	43	69	57	49	43	55	48	43	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	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	31
9	58	44	36	31	56	44	36	31	43	35	30	41	35	30	40	35	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	38	32	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2306	2306	2306
5°	2310	2296	2304
10°	2300	2289	2309
15°	2286	2288	2317
20°	2262	2282	2329
25°	2233	2269	2339
30°	2198	2255	2328
35°	2156	2223	2300
40°	2105	2180	2248
45°	2040	2117	2160
50°	1984	2035	2056
55°	1884	1922	1913
60°	1783	1783	1733
65°	1655	1616	1525
70°	1467	1403	1267
75°	1272	1155	975
80°	1043	900	885
85°	692	818	880



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.0	3.6
10°-20°	232.6	10.2
20°-30°	353.5	15.5
30°-40°	423.3	18.6
40°-50°	427.0	18.7
50°-60°	363.7	16.0
60°-70°	248.7	10.9
70°-80°	119.1	5.2
80°-90°	30.1	1.3
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°	667.2	29.3
0°-40°	1090.5	47.8
0°-60°	1881.1	82.5
0°-90°	2279.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2279.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	857	857	857	857	857	
5°	855	854	850	854	853	81
15°	820	818	821	831	832	231
25°	752	753	764	782	788	346
35°	656	658	677	696	700	410
45°	536	540	556	568	568	414
55°	402	404	410	411	408	359
65°	260	255	254	245	240	256
75°	122	120	111	97	94	131
85°	22	24	26	28	28	29
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	857.1	857.1	857.1	857.1	857.1
2.5°	858.1	857.1	853.0	857.1	856.1
5°	855.1	854.0	850.0	854.0	853.0
7.5°	848.9	847.9	844.9	848.9	848.9
10°	841.8	839.8	837.7	843.8	844.9
12.5°	832.6	830.6	830.6	837.7	838.7
15°	820.4	818.4	821.4	830.6	831.6
17.5°	806.1	805.1	810.2	821.4	823.5
20°	789.8	788.8	797.0	810.2	813.3
22.5°	772.5	772.5	781.7	797.0	801.0
25°	752.1	753.1	764.3	781.7	787.8
27.5°	730.7	732.8	746.0	765.4	770.5
30°	707.3	710.3	725.6	744.0	749.1
32.5°	681.8	684.9	702.2	721.5	726.6
35°	656.3	658.4	676.7	696.1	700.1
37.5°	627.8	630.8	650.2	667.5	671.6
40°	599.2	602.3	620.7	637.0	640.0
42.5°	567.7	571.7	590.1	603.3	605.4
45°	536.1	540.1	556.4	567.7	567.7
47.5°	504.5	506.5	520.8	532.0	531.0
50°	473.9	472.9	486.1	491.2	491.2
52.5°	436.2	439.2	448.4	451.5	448.4
55°	401.5	403.6	409.7	410.7	407.7
57.5°	367.9	366.9	372.0	368.9	364.8
60°	331.2	331.2	331.2	328.2	322.0
62.5°	295.5	293.5	292.5	285.4	282.3
65°	259.9	254.8	253.8	244.6	239.5
67.5°	222.2	220.1	215.0	205.9	196.7
70°	186.5	184.5	178.3	167.1	161.0
72.5°	153.9	151.9	143.7	130.4	122.3
75°	122.3	120.3	111.1	96.8	93.8
77.5°	92.7	91.7	82.5	75.4	74.4
80°	67.3	66.2	58.1	58.1	57.1
82.5°	42.8	42.8	40.8	41.8	42.8
85°	22.4	24.5	26.5	27.5	28.5
87.5°	7.1	11.2	13.2	14.3	13.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)