

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: P297802

Luminaire Tested: **D3X-WG-31L92765-LD5-UNV-14-T1-W2A-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297802
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-31L92765-LD5-UNV-14-T1-W2A-2700K
Description: D3X LED 1x4 TUNABLE WHITE TROFFER
WITH RECTANGULAR PERF LENS
Light Source: (168) 90 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2317.0 lumens
Efficiency: N/A
Efficacy: 82.2 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

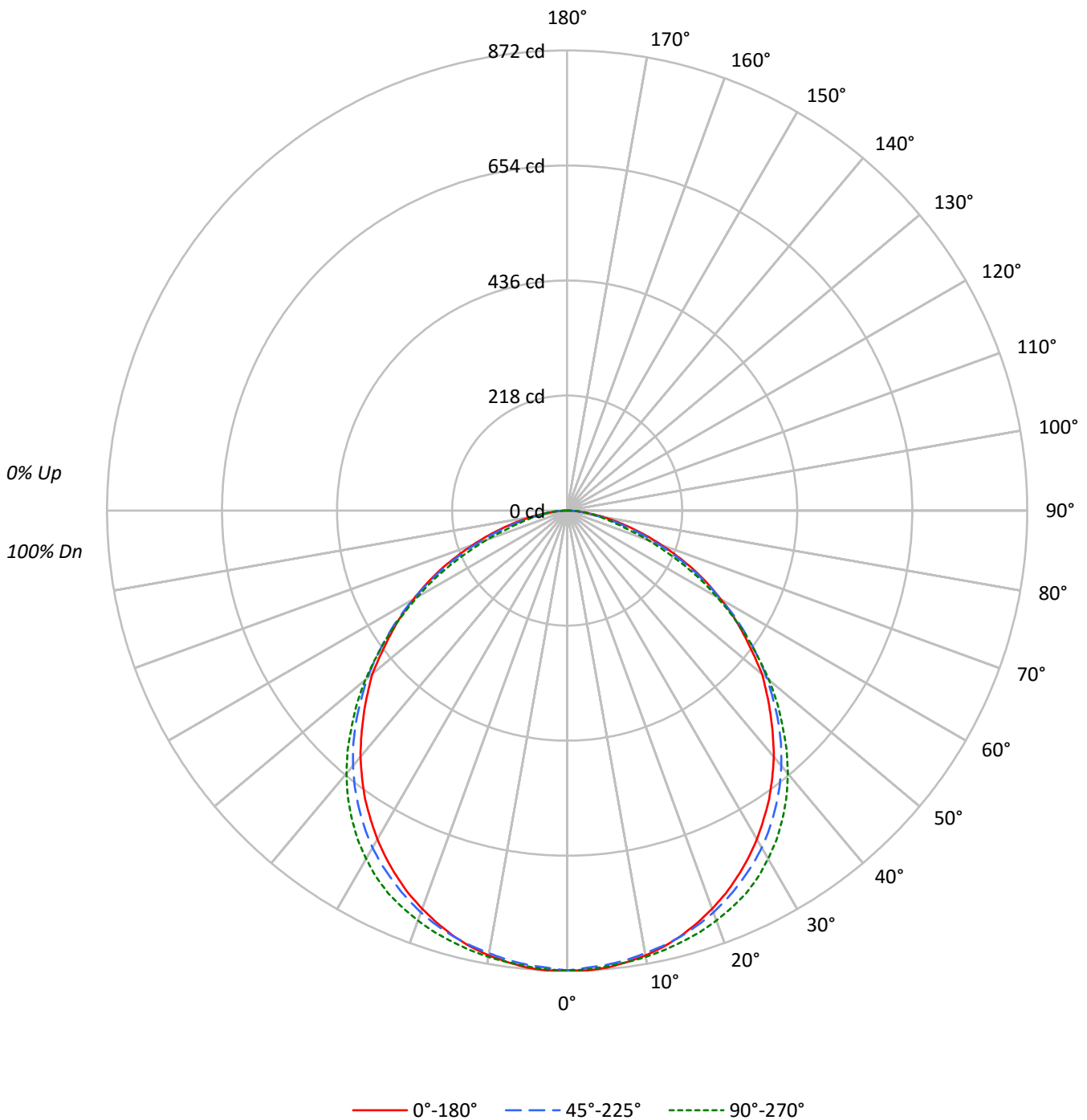
Input Watts (W): 28.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2345	2345	2345
5°	2348	2334	2343
10°	2338	2327	2347
15°	2324	2327	2355
20°	2300	2320	2368
25°	2271	2307	2378
30°	2234	2292	2367
35°	2192	2260	2338
40°	2140	2217	2286
45°	2074	2153	2196
50°	2017	2069	2091
55°	1915	1954	1944
60°	1812	1812	1762
65°	1682	1643	1550
70°	1492	1426	1288
75°	1292	1174	991
80°	1060	916	899
85°	704	831	895



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.4	3.6
10°-20°	236.5	10.2
20°-30°	359.4	15.5
30°-40°	430.3	18.6
40°-50°	434.1	18.7
50°-60°	369.7	16.0
60°-70°	252.8	10.9
70°-80°	121.1	5.2
80°-90°	30.7	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°	678.3	29.3
0°-40°	1108.7	47.8
0°-60°	1912.5	82.5
0°-90°	2317.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2317.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	871	871	871	871	871	
5°	869	868	864	868	867	83
15°	834	832	835	844	846	235
25°	765	766	777	795	801	352
35°	667	669	688	708	712	417
45°	545	549	566	577	577	421
55°	408	410	416	418	414	365
65°	264	259	258	249	244	261
75°	124	122	113	98	95	133
85°	23	25	27	28	29	29
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	871.4	871.4	871.4	871.4	871.4
2.5°	872.4	871.4	867.2	871.4	870.3
5°	869.3	868.3	864.1	868.3	867.2
7.5°	863.1	862.1	858.9	863.1	863.1
10°	855.8	853.8	851.7	857.9	858.9
12.5°	846.5	844.4	844.4	851.7	852.7
15°	834.1	832.0	835.1	844.4	845.5
17.5°	819.6	818.5	823.7	835.1	837.2
20°	803.0	802.0	810.2	823.7	826.8
22.5°	785.4	785.4	794.7	810.2	814.4
25°	764.7	765.7	777.1	794.7	800.9
27.5°	742.9	745.0	758.4	778.1	783.3
30°	719.1	722.2	737.7	756.4	761.6
32.5°	693.2	696.3	713.9	733.6	738.8
35°	667.3	669.3	688.0	707.7	711.8
37.5°	638.3	641.4	661.0	678.7	682.8
40°	609.2	612.3	631.0	647.6	650.7
42.5°	577.1	581.3	599.9	613.4	615.5
45°	545.0	549.1	565.7	577.1	577.1
47.5°	512.9	515.0	529.5	540.9	539.8
50°	481.8	480.8	494.2	499.4	499.4
52.5°	443.5	446.6	455.9	459.0	455.9
55°	408.2	410.3	416.5	417.6	414.4
57.5°	374.0	373.0	378.2	375.1	370.9
60°	336.7	336.7	336.7	333.6	327.4
62.5°	300.5	298.4	297.4	290.1	287.0
65°	264.2	259.0	258.0	248.7	243.5
67.5°	225.9	223.8	218.6	209.3	200.0
70°	189.6	187.5	181.3	169.9	163.7
72.5°	156.5	154.4	146.1	132.6	124.3
75°	124.3	122.3	112.9	98.4	95.3
77.5°	94.3	93.3	83.9	76.7	75.6
80°	68.4	67.3	59.1	59.1	58.0
82.5°	43.5	43.5	41.4	42.5	43.5
85°	22.8	24.9	26.9	28.0	29.0
87.5°	7.3	11.4	13.5	14.5	13.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)