

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: P297807

Luminaire Tested: **D3X-WG-31L92765-LD5-UNV-14-T1-W2A-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297807
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-5000K
Description: D3X LED 1x4 TUNABLE WHITE TROFFER
WITH RECTANGULAR PERF LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2734.0 lumens
Efficiency: N/A
Efficacy: 94.6 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

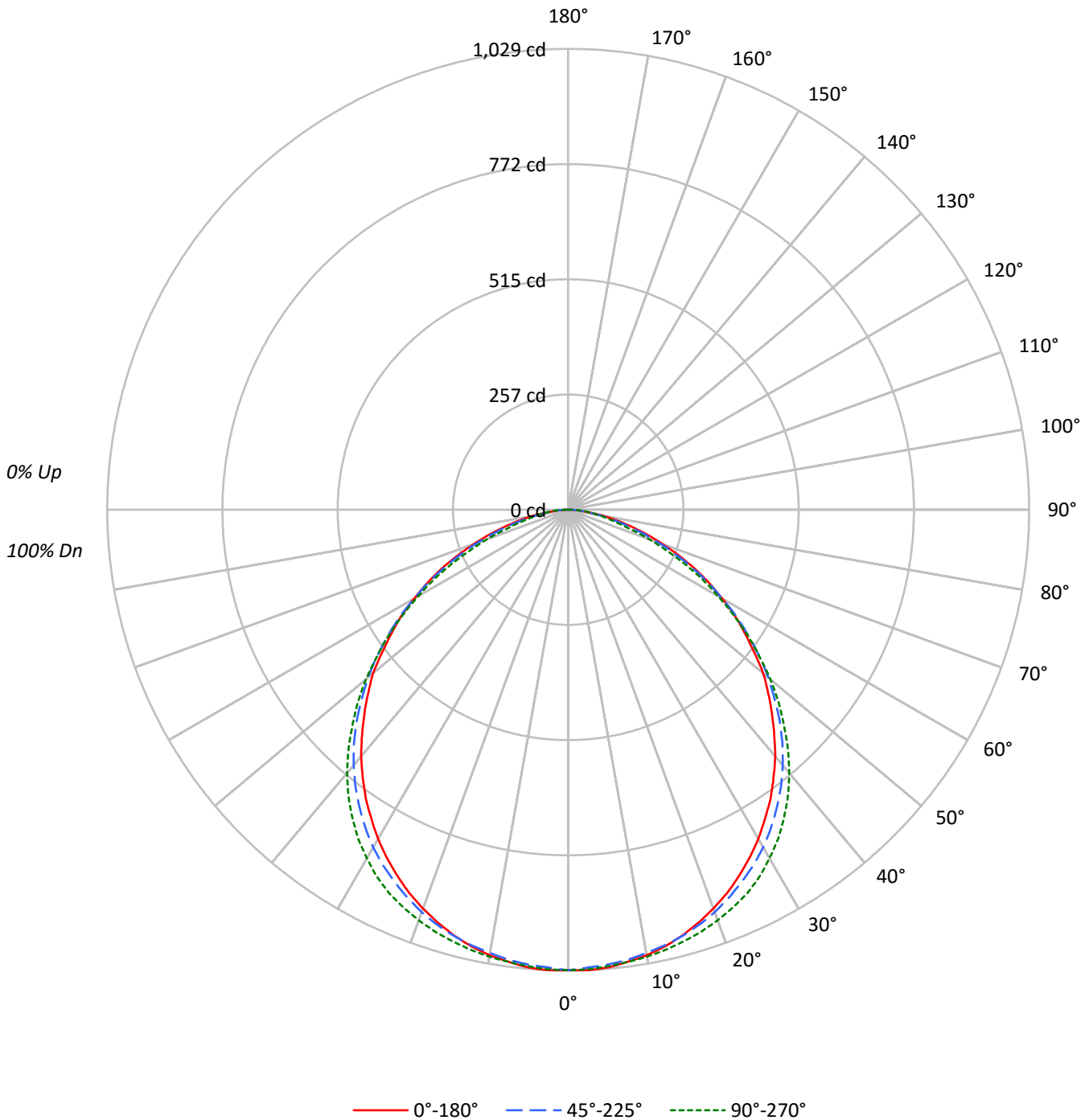
Input Watts (W): 28.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	85	80	97	90	84	79	87	82	77	83	79	75	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	81	71	63	57	68	61	56	66	60	55	64	59	54	52					52			
5	77	65	56	49	75	63	55	49	61	54	48	59	53	48	58	52	47	45					45			
6	71	58	49	43	69	57	49	43	55	48	43	54	47	42	52	46	42	40					40			
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35					35			
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	31					31			
9	58	44	36	31	56	44	36	31	43	35	30	41	35	30	40	35	30	28					28			
10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	38	32	27	26					26			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2767	2767	2767
5°	2771	2754	2764
10°	2760	2746	2769
15°	2742	2745	2779
20°	2713	2738	2794
25°	2679	2722	2806
30°	2637	2705	2792
35°	2587	2667	2759
40°	2525	2616	2697
45°	2447	2540	2592
50°	2380	2442	2467
55°	2260	2306	2294
60°	2138	2138	2079
65°	1985	1938	1829
70°	1760	1684	1520
75°	1525	1386	1170
80°	1251	1080	1062
85°	831	982	1056



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.2	3.6
10°-20°	279.1	10.2
20°-30°	424.1	15.5
30°-40°	507.8	18.6
40°-50°	512.2	18.7
50°-60°	436.3	16.0
60°-70°	298.3	10.9
70°-80°	142.9	5.2
80°-90°	36.2	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°	800.4	29.3
0°-40°	1308.2	47.8
0°-60°	2256.6	82.5
0°-90°	2734.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2734.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1028	1028	1028	1028	1028	
5°	1026	1024	1020	1024	1023	97
15°	984	982	985	996	998	278
25°	902	904	917	938	945	416
35°	787	790	812	835	840	492
45°	643	648	668	681	681	497
55°	482	484	492	493	489	431
65°	312	306	304	293	287	307
75°	147	144	133	116	112	157
85°	27	29	32	33	34	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1028.2	1028.2	1028.2	1028.2	1028.2
2.5°	1029.4	1028.2	1023.3	1028.2	1027.0
5°	1025.8	1024.5	1019.6	1024.5	1023.3
7.5°	1018.4	1017.2	1013.5	1018.4	1018.4
10°	1009.9	1007.4	1005.0	1012.3	1013.5
12.5°	998.9	996.4	996.4	1005.0	1006.2
15°	984.2	981.7	985.4	996.4	997.6
17.5°	967.1	965.9	972.0	985.4	987.9
20°	947.5	946.3	956.1	972.0	975.6
22.5°	926.7	926.7	937.7	956.1	961.0
25°	902.3	903.5	916.9	937.7	945.1
27.5°	876.6	879.0	894.9	918.2	924.3
30°	848.5	852.2	870.5	892.5	898.6
32.5°	817.9	821.6	842.4	865.6	871.7
35°	787.4	789.8	811.8	835.0	839.9
37.5°	753.1	756.8	780.0	800.8	805.7
40°	718.9	722.6	744.6	764.1	767.8
42.5°	681.0	685.9	707.9	723.8	726.2
45°	643.1	648.0	667.5	681.0	681.0
47.5°	605.2	607.6	624.7	638.2	637.0
50°	568.5	567.3	583.2	589.3	589.3
52.5°	523.3	526.9	537.9	541.6	537.9
55°	481.7	484.1	491.5	492.7	489.0
57.5°	441.4	440.1	446.2	442.6	437.7
60°	397.3	397.3	397.3	393.7	386.3
62.5°	354.6	352.1	350.9	342.3	338.7
65°	311.8	305.6	304.4	293.4	287.3
67.5°	266.5	264.1	258.0	247.0	236.0
70°	223.7	221.3	214.0	200.5	193.2
72.5°	184.6	182.2	172.4	156.5	146.7
75°	146.7	144.3	133.3	116.1	112.5
77.5°	111.3	110.0	99.0	90.5	89.2
80°	80.7	79.5	69.7	69.7	68.5
82.5°	51.3	51.3	48.9	50.1	51.3
85°	26.9	29.3	31.8	33.0	34.2
87.5°	8.6	13.4	15.9	17.1	15.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)