

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: P297942

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297942
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-1)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WO-31L92765-LD5-UNV-14-T1-W2A-2700K
Description: D3X LED 1x4 TUNABLE WHITE TROFFER
WITH OPAL LENS
Light Source: (168) 90 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2445.0 lumens
Efficiency: N/A
Efficacy: 86.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.24 / 1.33
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

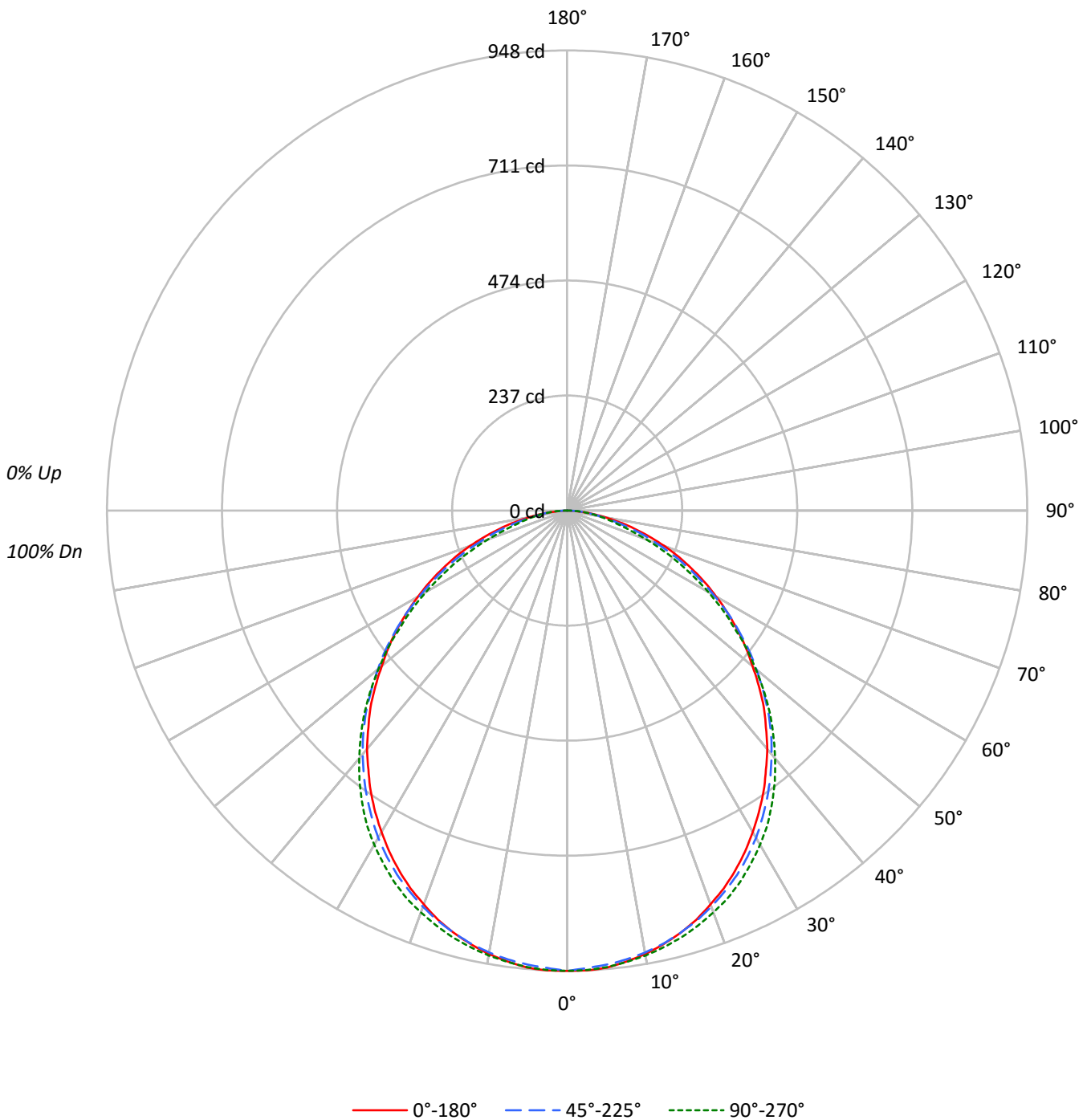
Input Watts (W): 28.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	95	98	95	92	94	92	90	91	89	87	85					85			
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	72					72			
3	91	81	73	67	89	79	72	66	77	70	65	74	68	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	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	46	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	31	41	35	30	29					29			
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28	26					26			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2552	2552	2552
5°	2553	2536	2551
10°	2535	2526	2543
15°	2509	2509	2535
20°	2472	2487	2523
25°	2431	2459	2505
30°	2377	2419	2470
35°	2319	2363	2417
40°	2253	2301	2341
45°	2181	2229	2248
50°	2087	2130	2122
55°	2008	2023	1970
60°	1908	1880	1807
65°	1801	1729	1610
70°	1672	1533	1362
75°	1487	1314	1121
80°	1237	1075	1044
85°	895	960	960



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.5	3.7
10°-20°	254.9	10.4
20°-30°	382.1	15.6
30°-40°	450.2	18.4
40°-50°	449.0	18.4
50°-60°	381.9	15.6
60°-70°	266.5	10.9
70°-80°	135.5	5.5
80°-90°	35.4	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°	726.5	29.7
0°-40°	1176.7	48.1
0°-60°	2007.6	82.1
0°-90°	2445.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2445.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	948	948	948	948	948	
5°	945	943	939	944	944	90
15°	901	901	901	909	910	254
25°	819	820	828	840	844	377
35°	706	707	719	734	736	441
45°	573	575	586	590	591	441
55°	428	428	431	425	420	382
65°	283	279	272	257	253	281
75°	143	138	126	111	108	152
85°	29	30	31	31	31	36
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	948.3	948.3	948.3	948.3	948.3
2.5°	948.3	947.3	943.1	947.3	947.3
5°	945.2	943.1	939.0	944.2	944.2
7.5°	936.9	935.9	932.8	938.0	938.0
10°	927.6	926.6	924.5	930.7	930.7
12.5°	915.2	915.2	914.1	920.3	921.4
15°	900.7	900.7	900.7	908.9	910.0
17.5°	884.1	883.0	886.1	895.5	896.5
20°	863.3	864.4	868.5	878.9	881.0
22.5°	842.6	843.7	848.8	861.3	864.4
25°	818.8	819.8	828.1	840.5	843.7
27.5°	792.9	794.9	804.3	817.7	819.8
30°	764.9	767.0	778.4	791.8	794.9
32.5°	735.9	739.0	749.3	763.8	768.0
35°	705.8	706.8	719.3	733.8	735.9
37.5°	672.6	675.8	688.2	700.6	702.7
40°	641.5	643.6	655.0	665.4	666.4
42.5°	606.3	609.4	621.9	629.1	629.1
45°	573.1	575.2	585.6	589.7	590.8
47.5°	535.8	537.9	547.2	549.3	549.3
50°	498.5	503.7	508.9	508.9	506.8
52.5°	464.3	465.4	471.6	467.4	465.4
55°	428.0	428.0	431.2	424.9	419.8
57.5°	391.8	391.8	391.8	383.5	379.3
60°	354.5	353.4	349.3	338.9	335.8
62.5°	319.2	316.1	309.9	299.5	293.3
65°	282.9	278.8	271.5	257.0	252.9
67.5°	248.7	241.5	233.2	219.7	212.5
70°	212.5	206.2	194.8	179.3	173.1
72.5°	177.2	171.0	161.7	146.1	136.8
75°	143.0	137.8	126.4	110.9	107.8
77.5°	109.9	106.8	95.4	88.1	87.1
80°	79.8	78.8	69.4	67.4	67.4
82.5°	52.9	51.8	48.7	48.7	47.7
85°	29.0	30.1	31.1	31.1	31.1
87.5°	10.4	12.4	14.5	14.5	14.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)