

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: P298105

Luminaire Tested: **D3X-WD-31L92765-LD5-UNV-22-T1-W2A-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P298105
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-5)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WD-31L92765-LD5-UNV-22-T1-W2A-4500K
Description: D3X LED 2x2 TUNABLE WHITE TROFFER
WITH ROUND PERF LENS
Light Source: (252) 90 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2637.0 lumens
Efficiency: N/A
Efficacy: 105.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.32 / 1.37
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

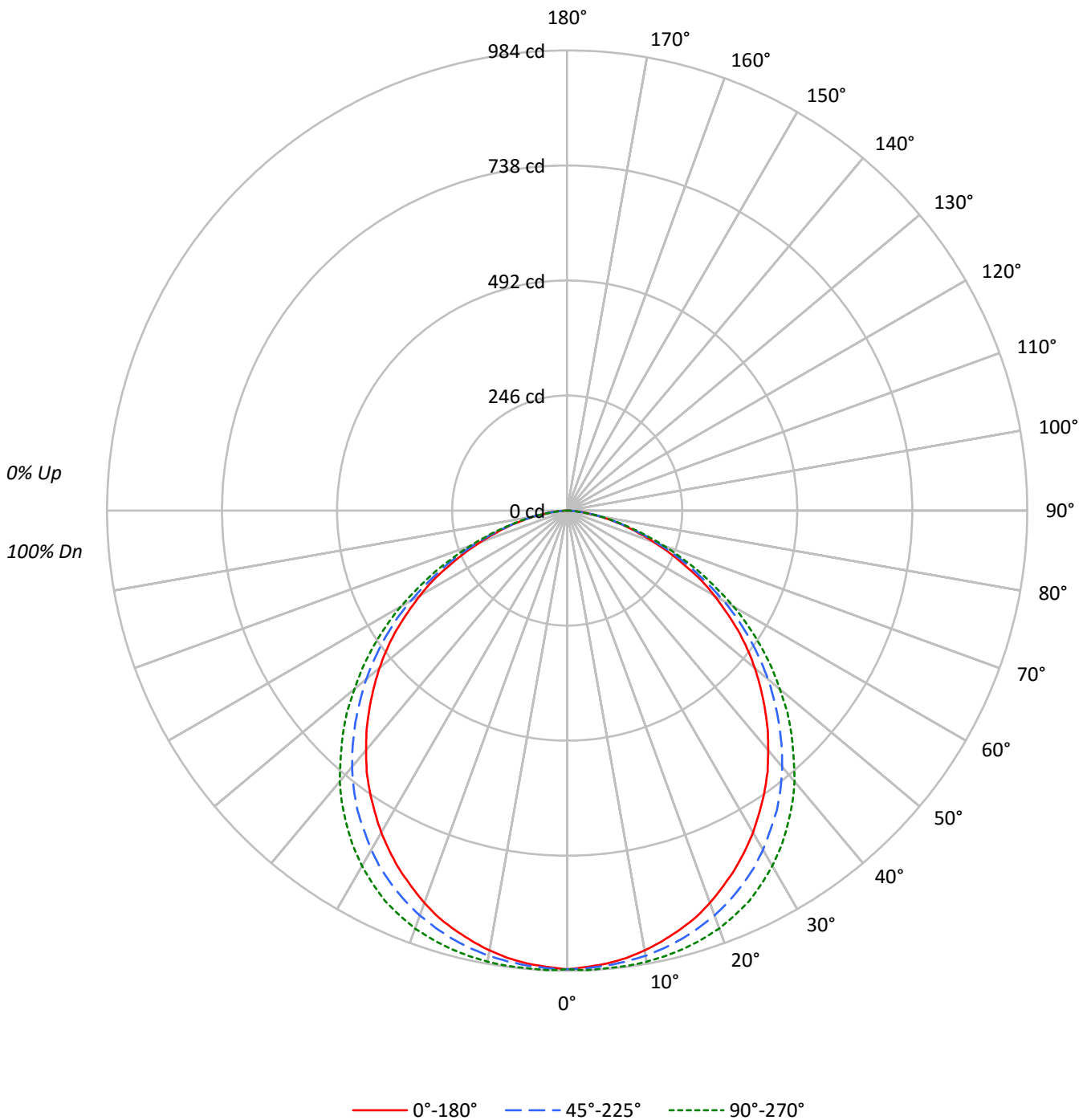
Input Watts (W): 24.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	81	77	83	79	75	80	77	74	72
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63	61
4	84	72	63	57	81	71	63	57	68	61	56	66	60	55	64	59	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	31	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	27	37	32	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2639	2639	2639
5°	2626	2638	2653
10°	2610	2641	2676
15°	2586	2642	2701
20°	2557	2638	2723
25°	2516	2626	2735
30°	2470	2602	2726
35°	2416	2569	2700
40°	2348	2513	2657
45°	2274	2436	2582
50°	2193	2347	2484
55°	2091	2231	2371
60°	1956	2078	2215
65°	1771	1880	1997
70°	1563	1642	1731
75°	1343	1372	1432
80°	1079	1100	1122
85°	787	701	701



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.9	3.5
10°-20°	267.7	10.2
20°-30°	407.3	15.4
30°-40°	487.2	18.5
40°-50°	492.6	18.7
50°-60°	423.9	16.1
60°-70°	292.7	11.1
70°-80°	141.9	5.4
80°-90°	30.8	1.2
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°	767.9	29.1
0°-40°	1255.2	47.6
0°-60°	2171.7	82.4
0°-90°	2637.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2637.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	981	981	981	981	981	
5°	972	974	977	981	982	92
15°	928	934	948	962	970	262
25°	847	857	884	911	921	390
35°	735	748	782	810	822	460
45°	598	609	640	667	678	461
55°	446	453	476	497	505	397
65°	278	282	295	308	314	277
75°	129	126	132	136	138	137
85°	26	26	23	23	23	31
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	980.8	980.8	980.8	980.8	980.8
2.5°	976.6	976.6	979.4	982.2	983.6
5°	972.3	973.7	976.6	980.8	982.2
7.5°	965.2	966.6	972.3	979.4	982.2
10°	955.3	958.1	966.6	975.1	979.4
12.5°	942.5	948.2	958.1	969.5	975.1
15°	928.3	934.0	948.2	962.4	969.5
17.5°	912.7	918.4	935.4	953.8	960.9
20°	892.8	901.3	921.2	942.5	951.0
22.5°	870.1	881.5	904.2	926.9	936.8
25°	847.4	857.3	884.3	911.3	921.2
27.5°	821.8	833.2	863.0	890.0	899.9
30°	794.9	806.2	837.4	867.3	877.2
32.5°	765.1	779.3	809.1	840.3	851.6
35°	735.3	748.0	782.1	810.5	821.8
37.5°	704.0	715.4	749.4	779.3	790.6
40°	668.5	681.3	715.4	745.2	756.5
42.5°	634.5	647.2	678.5	706.9	716.8
45°	597.6	608.9	640.2	667.1	678.5
47.5°	560.7	573.4	600.4	627.4	638.7
50°	523.8	533.7	560.7	586.2	593.3
52.5°	485.4	494.0	518.1	540.8	550.7
55°	445.7	452.8	475.5	496.8	505.3
57.5°	403.1	411.6	432.9	448.5	458.5
60°	363.4	367.6	386.1	401.7	411.6
62.5°	323.6	325.0	339.2	354.9	360.5
65°	278.2	282.5	295.2	308.0	313.7
67.5°	237.0	241.3	251.2	261.2	265.4
70°	198.7	198.7	208.7	215.7	220.0
72.5°	160.4	161.8	168.9	173.2	177.4
75°	129.2	126.3	132.0	136.3	137.7
77.5°	96.5	95.1	99.4	100.8	103.6
80°	69.6	69.6	71.0	72.4	72.4
82.5°	45.4	45.4	46.8	44.0	42.6
85°	25.5	25.5	22.7	22.7	22.7
87.5°	8.5	8.5	8.5	9.9	8.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)