

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: P298065

Luminaire Tested: **D3X-WD-31L93050-LD5-UNV-22-T1-W2A-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P298065
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-31L93050-LD5-UNV-22-T1-W2A-4000K
Description: D3X LED 2x2 TUNABLE WHITE TROFFER
WITH ROUND PERF LENS
Light Source: (252) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2671.0 lumens
Efficiency: N/A
Efficacy: 106.4 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

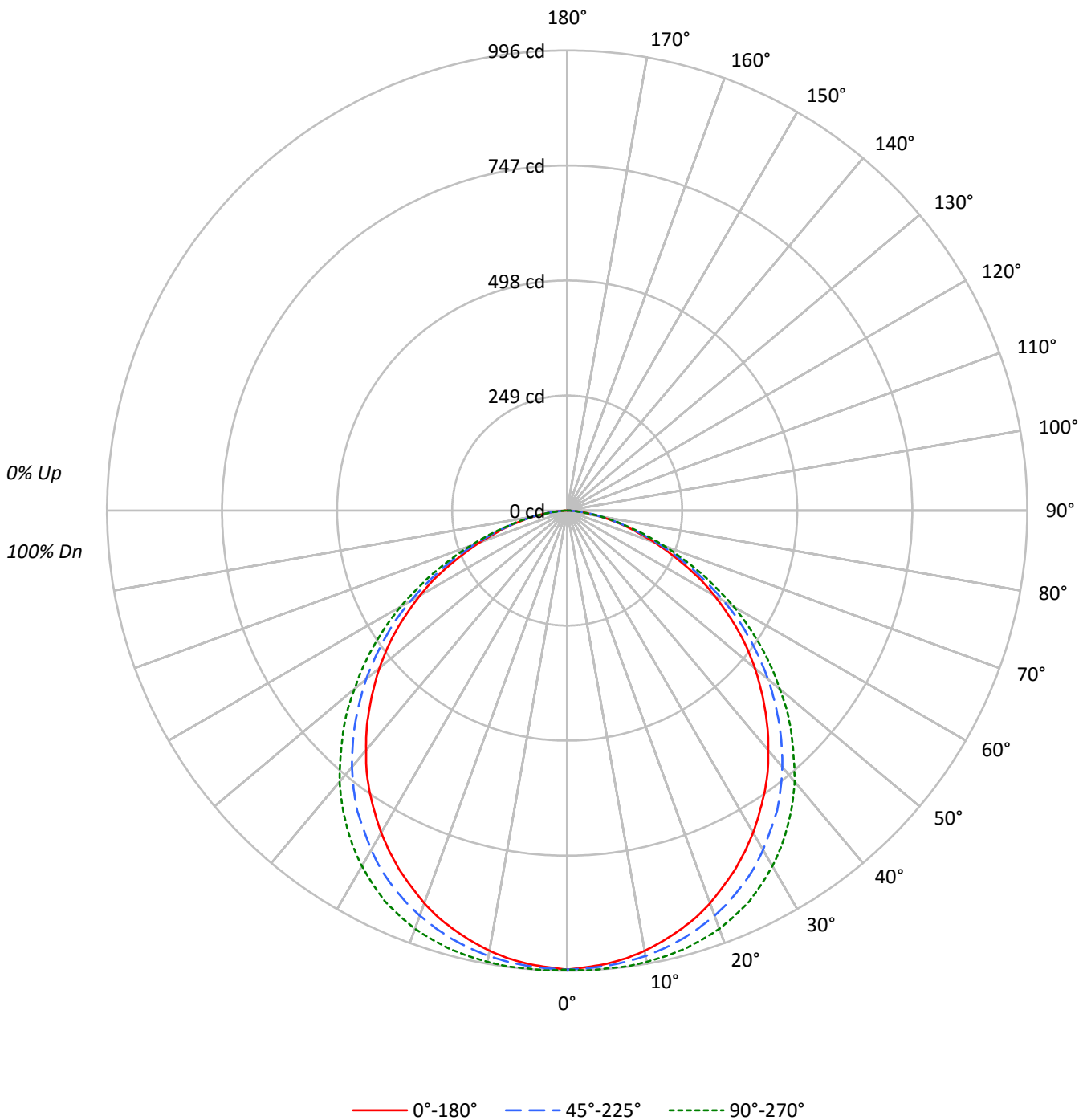
Input Watts (W): 25.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2673	2673	2673
5°	2660	2672	2687
10°	2644	2675	2711
15°	2620	2676	2736
20°	2590	2672	2759
25°	2548	2659	2771
30°	2502	2636	2761
35°	2446	2602	2734
40°	2379	2545	2692
45°	2304	2468	2615
50°	2221	2377	2516
55°	2118	2259	2401
60°	1981	2105	2244
65°	1794	1904	2023
70°	1584	1662	1753
75°	1360	1390	1450
80°	1091	1114	1136
85°	800	710	710



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.1	3.5
10°-20°	271.2	10.2
20°-30°	412.5	15.4
30°-40°	493.5	18.5
40°-50°	498.9	18.7
50°-60°	429.4	16.1
60°-70°	296.4	11.1
70°-80°	143.7	5.4
80°-90°	31.2	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°	777.8	29.1
0°-40°	1271.4	47.6
0°-60°	2199.6	82.4
0°-90°	2671.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2671.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	994	994	994	994	994	
5°	985	986	989	994	995	93
15°	940	946	960	975	982	265
25°	858	868	896	923	933	395
35°	745	758	792	821	832	465
45°	605	617	648	676	687	467
55°	451	459	482	503	512	402
65°	282	286	299	312	318	280
75°	131	128	134	138	140	139
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°	993.5	993.5	993.5	993.5	993.5
2.5°	989.1	989.1	992.0	994.9	996.3
5°	984.8	986.3	989.1	993.5	994.9
7.5°	977.6	979.1	984.8	992.0	994.9
10°	967.6	970.5	979.1	987.7	992.0
12.5°	954.6	960.4	970.5	982.0	987.7
15°	940.3	946.0	960.4	974.8	982.0
17.5°	924.4	930.2	947.4	966.1	973.3
20°	904.3	912.9	933.1	954.6	963.3
22.5°	881.3	892.8	915.8	938.8	948.9
25°	858.3	868.4	895.7	923.0	933.1
27.5°	832.4	843.9	874.1	901.4	911.5
30°	805.1	816.6	848.2	878.4	888.5
32.5°	774.9	789.3	819.5	851.1	862.6
35°	744.7	757.7	792.2	820.9	832.4
37.5°	713.1	724.6	759.1	789.3	800.8
40°	677.2	690.1	724.6	754.8	766.3
42.5°	642.7	655.6	687.2	716.0	726.0
45°	605.3	616.8	648.4	675.7	687.2
47.5°	567.9	580.8	608.1	635.5	647.0
50°	530.5	540.6	567.9	593.8	601.0
52.5°	491.7	500.3	524.8	547.8	557.8
55°	451.4	458.6	481.6	503.2	511.8
57.5°	408.3	416.9	438.5	454.3	464.4
60°	368.1	372.4	391.1	406.9	416.9
62.5°	327.8	329.2	343.6	359.4	365.2
65°	281.8	286.1	299.0	312.0	317.7
67.5°	240.1	244.4	254.5	264.5	268.9
70°	201.3	201.3	211.3	218.5	222.8
72.5°	162.5	163.9	171.1	175.4	179.7
75°	130.8	128.0	133.7	138.0	139.5
77.5°	97.8	96.3	100.6	102.1	105.0
80°	70.4	70.4	71.9	73.3	73.3
82.5°	46.0	46.0	47.4	44.6	43.1
85°	25.9	25.9	23.0	23.0	23.0
87.5°	8.6	8.6	8.6	10.1	8.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)