

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: P298101

Luminaire Tested: **D3X-WD-31L92765-LD5-UNV-22-T1-W2A-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P298101
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-2700K
Description: D3X LED 2x2 TUNABLE WHITE TROFFER
WITH ROUND PERF LENS
Light Source: (252) 90 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2280.0 lumens
Efficiency: N/A
Efficacy: 93.4 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

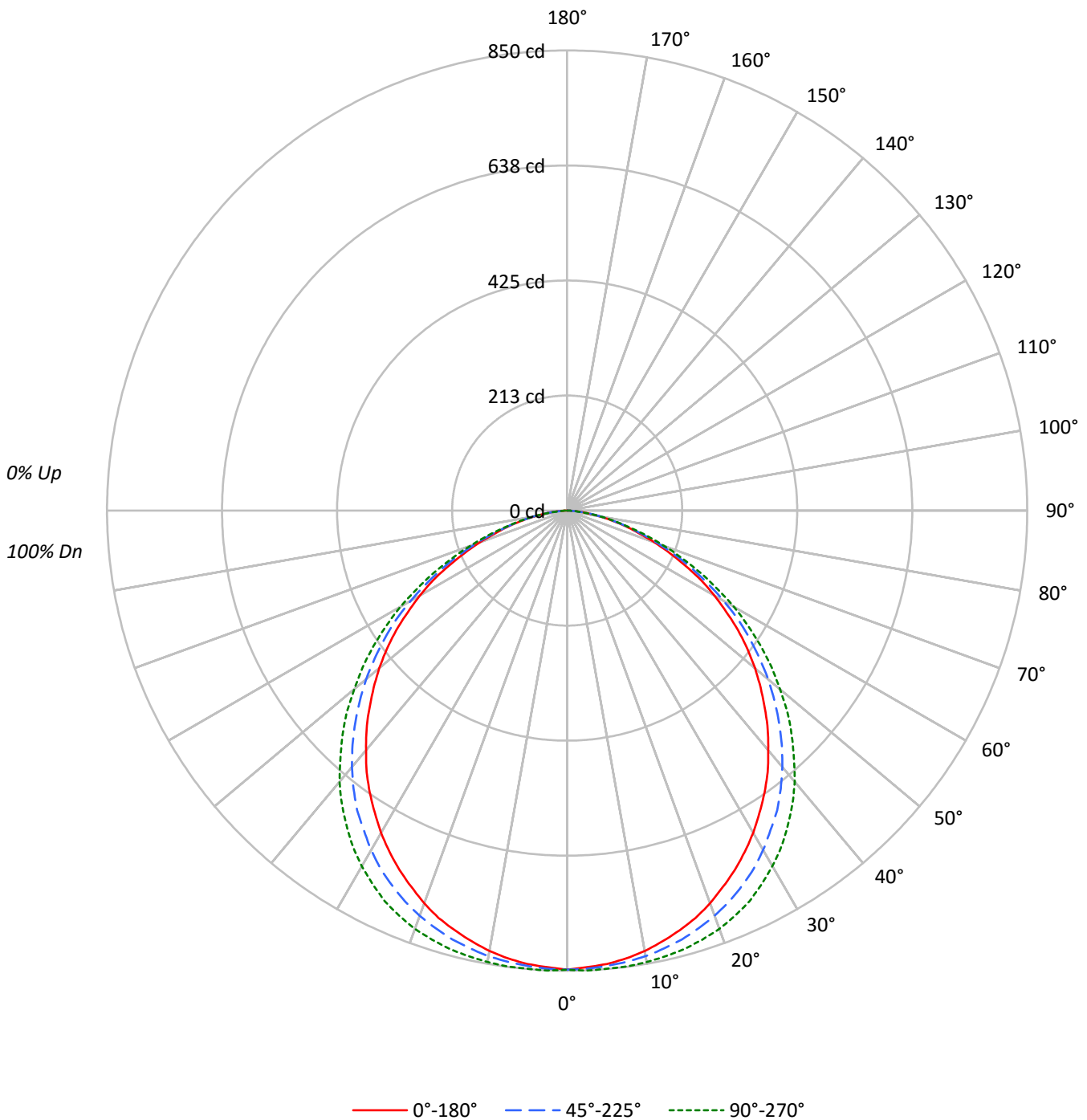
Input Watts (W): 24.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	63	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52					52			
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45					45			
6	71	58	49	43	69	57	49	43	55	48	42	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	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31					31			
9	57	44	36	31	56	44	36	31	42	35	30	41	35	30	40	34	30	28					28			
10	54	41	33	28	53	40	33	28	39	32	28	38	32	27	37	32	27	26					26			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2282	2282	2282
5°	2271	2281	2294
10°	2257	2284	2314
15°	2236	2284	2335
20°	2210	2281	2355
25°	2176	2270	2365
30°	2136	2250	2357
35°	2088	2221	2334
40°	2030	2173	2298
45°	1966	2106	2232
50°	1896	2030	2148
55°	1808	1929	2050
60°	1691	1796	1915
65°	1531	1626	1727
70°	1352	1419	1496
75°	1161	1186	1237
80°	931	951	970
85°	682	605	605



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.4	3.5
10°-20°	231.5	10.2
20°-30°	352.1	15.4
30°-40°	421.3	18.5
40°-50°	425.9	18.7
50°-60°	366.5	16.1
60°-70°	253.0	11.1
70°-80°	122.7	5.4
80°-90°	26.6	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°	664.0	29.1
0°-40°	1085.3	47.6
0°-60°	1877.7	82.4
0°-90°	2280.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2280.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	848	848	848	848	848	
5°	841	842	844	848	849	80
15°	803	808	820	832	838	226
25°	733	741	765	788	796	337
35°	636	647	676	701	711	397
45°	517	526	554	577	587	399
55°	385	392	411	430	437	344
65°	240	244	255	266	271	239
75°	112	109	114	118	119	119
85°	22	22	20	20	20	27
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	848.0	848.0	848.0	848.0	848.0
2.5°	844.3	844.3	846.8	849.3	850.5
5°	840.7	841.9	844.3	848.0	849.3
7.5°	834.5	835.8	840.7	846.8	849.3
10°	825.9	828.4	835.8	843.1	846.8
12.5°	814.9	819.8	828.4	838.2	843.1
15°	802.6	807.5	819.8	832.1	838.2
17.5°	789.1	794.0	808.8	824.7	830.8
20°	771.9	779.3	796.5	814.9	822.3
22.5°	752.3	762.1	781.8	801.4	810.0
25°	732.7	741.3	764.6	787.9	796.5
27.5°	710.6	720.4	746.2	769.5	778.1
30°	687.3	697.1	724.1	749.8	758.4
32.5°	661.5	673.8	699.5	726.5	736.3
35°	635.7	646.8	676.2	700.8	710.6
37.5°	608.7	618.5	648.0	673.8	683.6
40°	578.0	589.1	618.5	644.3	654.1
42.5°	548.6	559.6	586.6	611.2	619.8
45°	516.7	526.5	553.5	576.8	586.6
47.5°	484.8	495.8	519.1	542.4	552.3
50°	452.9	461.4	484.8	506.9	513.0
52.5°	419.7	427.1	447.9	467.6	476.2
55°	385.4	391.5	411.1	429.5	436.9
57.5°	348.5	355.9	374.3	387.8	396.4
60°	314.2	317.9	333.8	347.3	355.9
62.5°	279.8	281.0	293.3	306.8	311.7
65°	240.5	244.2	255.3	266.3	271.2
67.5°	204.9	208.6	217.2	225.8	229.5
70°	171.8	171.8	180.4	186.5	190.2
72.5°	138.7	139.9	146.0	149.7	153.4
75°	111.7	109.2	114.1	117.8	119.0
77.5°	83.5	82.2	85.9	87.1	89.6
80°	60.1	60.1	61.4	62.6	62.6
82.5°	39.3	39.3	40.5	38.0	36.8
85°	22.1	22.1	19.6	19.6	19.6
87.5°	7.4	7.4	7.4	8.6	7.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)