

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: P297408

Luminaire Tested: **D3X-WO-80L82765-LD5-UNV-24-T1-W2A-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297408
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-7)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WO-80L82765-LD5-UNV-24-T1-W2A-6500K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH OPAL LENS
Light Source: (504) 80 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8428.0 lumens
Efficiency: N/A
Efficacy: 132.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

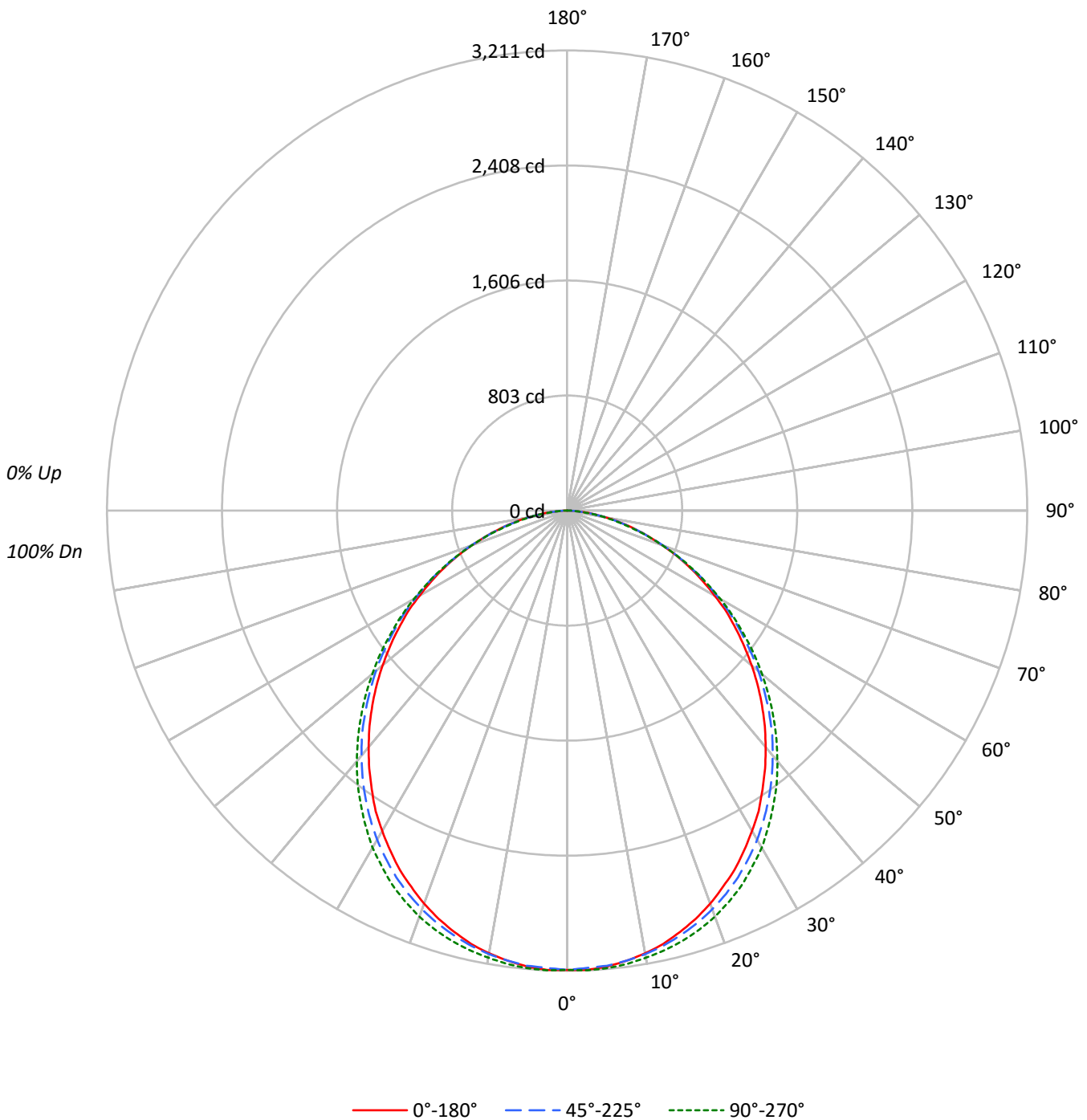
Input Watts (W): 63.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	100	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85
2	100	92	85	79	97	90	84	78	86	81	77	83	79	75	80	76	73	71
3	91	81	73	66	89	79	72	66	76	70	65	73	68	64	71	66	62	60
4	83	72	63	57	81	70	62	56	68	61	55	66	60	55	63	58	54	52
5	77	64	55	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	41	39
7	66	53	44	38	64	52	44	38	50	43	37	49	42	37	47	41	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	30	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°	4313	4313	4313
5°	4314	4306	4329
10°	4286	4294	4329
15°	4239	4271	4330
20°	4179	4240	4317
25°	4105	4189	4282
30°	4009	4120	4221
35°	3903	4029	4122
40°	3785	3919	4009
45°	3657	3792	3873
50°	3518	3649	3714
55°	3370	3476	3530
60°	3201	3285	3323
65°	3019	3064	3082
70°	2770	2803	2770
75°	2494	2480	2406
80°	2112	2090	2024
85°	1578	1535	1359



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	303.5	3.6
10°-20°	866.9	10.3
20°-30°	1299.8	15.4
30°-40°	1530.8	18.2
40°-50°	1531.0	18.2
50°-60°	1321.0	15.7
60°-70°	950.5	11.3
70°-80°	504.2	6.0
80°-90°	120.3	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°	2470.2	29.3
0°-40°	4001.0	47.5
0°-60°	6853.0	81.3
0°-90°	8428.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8428.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3205	3205	3205	3205	3205	
5°	3194	3191	3188	3200	3205	303
15°	3044	3052	3066	3097	3109	858
25°	2765	2782	2822	2870	2884	1272
35°	2376	2405	2453	2496	2510	1487
45°	1922	1948	1993	2027	2036	1483
55°	1437	1451	1482	1508	1505	1286
65°	948	951	962	968	968	938
75°	480	474	477	466	463	510
85°	102	102	99	91	88	124
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3205.3	3205.3	3205.3	3205.3	3205.3
2.5°	3208.2	3202.5	3194.0	3205.3	3211.0
5°	3194.0	3191.1	3188.3	3199.6	3205.3
7.5°	3168.4	3171.3	3168.4	3185.5	3191.1
10°	3137.2	3140.0	3142.9	3162.7	3168.4
12.5°	3097.4	3100.3	3108.8	3134.3	3142.9
15°	3043.5	3052.0	3066.2	3097.4	3108.8
17.5°	2986.7	2998.1	3017.9	3054.9	3066.2
20°	2918.6	2932.8	2961.2	3000.9	3015.1
22.5°	2841.9	2856.1	2895.9	2938.5	2952.6
25°	2765.3	2782.3	2822.0	2870.3	2884.5
27.5°	2674.4	2697.1	2739.7	2788.0	2799.3
30°	2580.7	2600.6	2651.7	2697.1	2717.0
32.5°	2487.0	2506.9	2555.2	2600.6	2614.8
35°	2376.3	2404.7	2453.0	2495.6	2509.7
37.5°	2268.4	2294.0	2345.1	2387.7	2401.9
40°	2154.9	2177.6	2231.5	2271.3	2282.6
42.5°	2041.3	2064.0	2118.0	2149.2	2160.5
45°	1922.1	1947.6	1993.0	2027.1	2035.6
47.5°	1802.8	1822.7	1865.3	1896.5	1907.9
50°	1680.7	1700.6	1743.2	1768.7	1774.4
52.5°	1558.7	1572.9	1612.6	1635.3	1643.8
55°	1436.6	1450.8	1482.0	1507.6	1504.7
57.5°	1320.2	1325.9	1357.1	1374.1	1374.1
60°	1189.6	1195.3	1220.8	1232.2	1235.0
62.5°	1067.5	1076.0	1095.9	1098.7	1098.7
65°	948.3	951.1	962.4	968.1	968.1
67.5°	829.0	826.2	837.5	837.5	834.7
70°	704.1	709.8	712.6	706.9	704.1
72.5°	590.5	587.7	587.7	584.9	584.9
75°	479.8	474.1	477.0	465.6	462.8
77.5°	377.6	369.1	366.2	360.6	354.9
80°	272.6	272.6	269.7	264.0	261.2
82.5°	181.7	181.7	178.9	173.2	167.5
85°	102.2	102.2	99.4	90.9	88.0
87.5°	34.1	34.1	34.1	34.1	34.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)