

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: P297399

Luminaire Tested: **D3X-WO-74L82765-LD5-UNV-24-T1-W2A-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297399
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-74L82765-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: 7771.0 lumens
Efficiency: N/A
Efficacy: 135.1 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

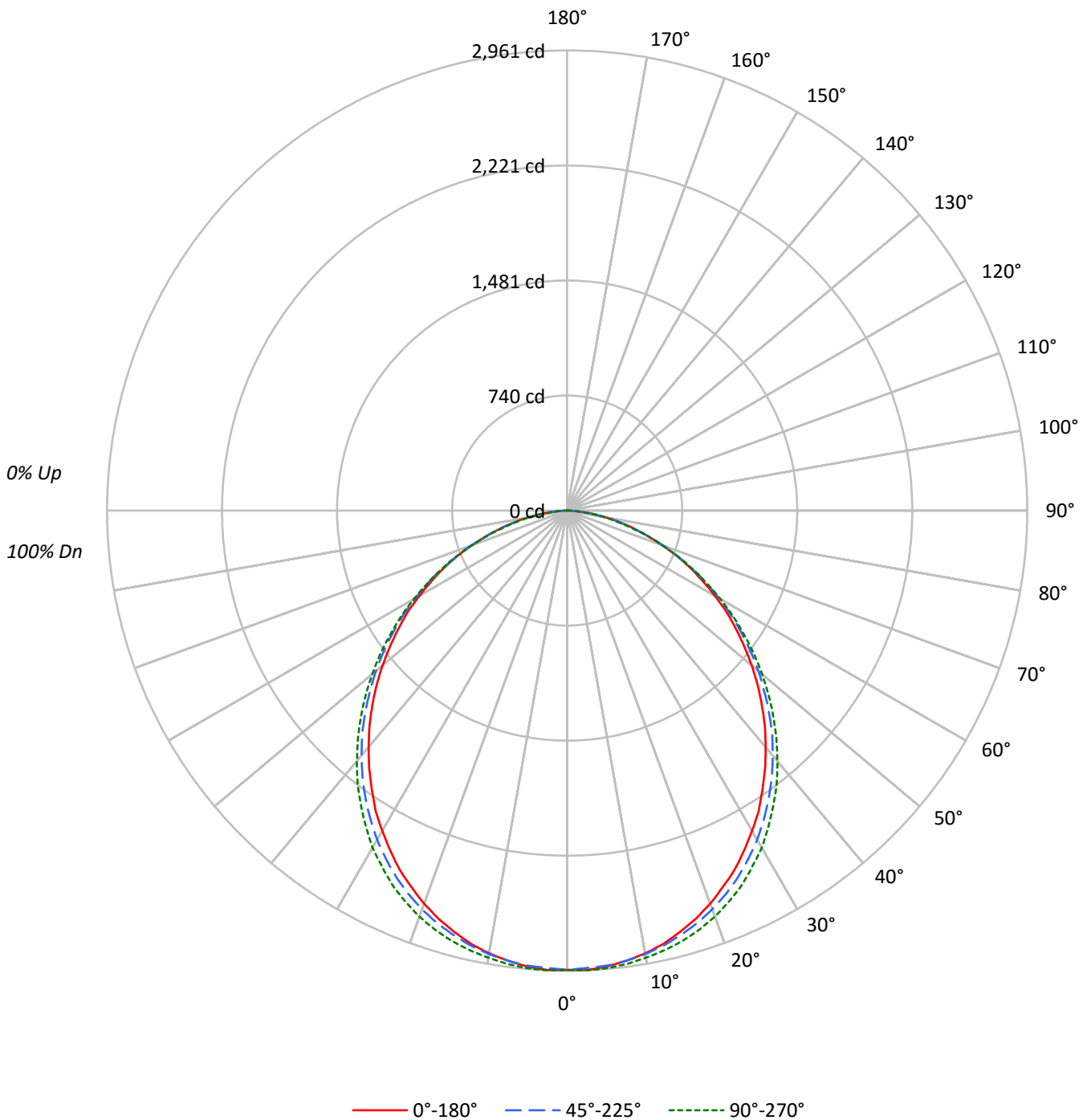
Input Watts (W): 57.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3977	3977	3977
5°	3978	3970	3992
10°	3952	3959	3991
15°	3909	3938	3993
20°	3853	3909	3981
25°	3785	3863	3948
30°	3697	3799	3892
35°	3599	3715	3801
40°	3490	3614	3697
45°	3372	3497	3571
50°	3244	3364	3425
55°	3107	3206	3255
60°	2951	3029	3064
65°	2784	2825	2842
70°	2554	2585	2554
75°	2300	2286	2218
80°	1947	1927	1866
85°	1454	1414	1254



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	279.8	3.6
10°-20°	799.4	10.3
20°-30°	1198.5	15.4
30°-40°	1411.4	18.2
40°-50°	1411.7	18.2
50°-60°	1218.0	15.7
60°-70°	876.5	11.3
70°-80°	464.9	6.0
80°-90°	110.9	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°	2277.7	29.3
0°-40°	3689.1	47.5
0°-60°	6318.8	81.3
0°-90°	7771.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7771.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2956	2956	2956	2956	2956	
5°	2945	2942	2940	2950	2956	279
15°	2806	2814	2827	2856	2866	791
25°	2550	2565	2602	2647	2660	1173
35°	2191	2217	2262	2301	2314	1371
45°	1772	1796	1838	1869	1877	1367
55°	1325	1338	1366	1390	1387	1185
65°	874	877	887	893	893	865
75°	442	437	440	429	427	471
85°	94	94	92	84	81	114
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2955.5	2955.5	2955.5	2955.5	2955.5
2.5°	2958.1	2952.8	2945.0	2955.5	2960.7
5°	2945.0	2942.4	2939.7	2950.2	2955.5
7.5°	2921.4	2924.0	2921.4	2937.1	2942.4
10°	2892.6	2895.2	2897.9	2916.2	2921.4
12.5°	2856.0	2858.6	2866.5	2890.0	2897.9
15°	2806.2	2814.1	2827.2	2856.0	2866.5
17.5°	2753.9	2764.4	2782.7	2816.7	2827.2
20°	2691.1	2704.1	2730.3	2767.0	2780.1
22.5°	2620.4	2633.5	2670.1	2709.4	2722.5
25°	2549.7	2565.4	2602.1	2646.6	2659.6
27.5°	2465.9	2486.9	2526.1	2570.6	2581.1
30°	2379.5	2397.9	2445.0	2486.9	2505.2
32.5°	2293.2	2311.5	2356.0	2397.9	2411.0
35°	2191.1	2217.2	2261.7	2301.0	2314.1
37.5°	2091.6	2115.2	2162.3	2201.5	2214.6
40°	1986.9	2007.8	2057.6	2094.2	2104.7
42.5°	1882.2	1903.1	1952.9	1981.6	1992.1
45°	1772.2	1795.8	1837.7	1869.1	1876.9
47.5°	1662.3	1680.6	1719.9	1748.7	1759.1
50°	1549.7	1568.0	1607.3	1630.9	1636.1
52.5°	1437.2	1450.2	1486.9	1507.8	1515.7
55°	1324.6	1337.7	1366.5	1390.0	1387.4
57.5°	1217.3	1222.5	1251.3	1267.0	1267.0
60°	1096.8	1102.1	1125.6	1136.1	1138.7
62.5°	984.3	992.1	1010.5	1013.1	1013.1
65°	874.3	877.0	887.4	892.7	892.7
67.5°	764.4	761.8	772.2	772.2	769.6
70°	649.2	654.4	657.1	651.8	649.2
72.5°	544.5	541.9	541.9	539.3	539.3
75°	442.4	437.2	439.8	429.3	426.7
77.5°	348.2	340.3	337.7	332.5	327.2
80°	251.3	251.3	248.7	243.5	240.8
82.5°	167.5	167.5	164.9	159.7	154.4
85°	94.2	94.2	91.6	83.8	81.2
87.5°	31.4	31.4	31.4	31.4	31.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)