

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: P297123

Luminaire Tested: **D3X-WG-80L82765-LD5-UNV-24-T1-W2A-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297123
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-9)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WG-80L82765-LD5-UNV-24-T1-W2A-4000K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH RECTANGULAR PERF LENS
Light Source: (504) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7569.0 lumens
Efficiency: N/A
Efficacy: 123.1 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.3 / 1.37
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

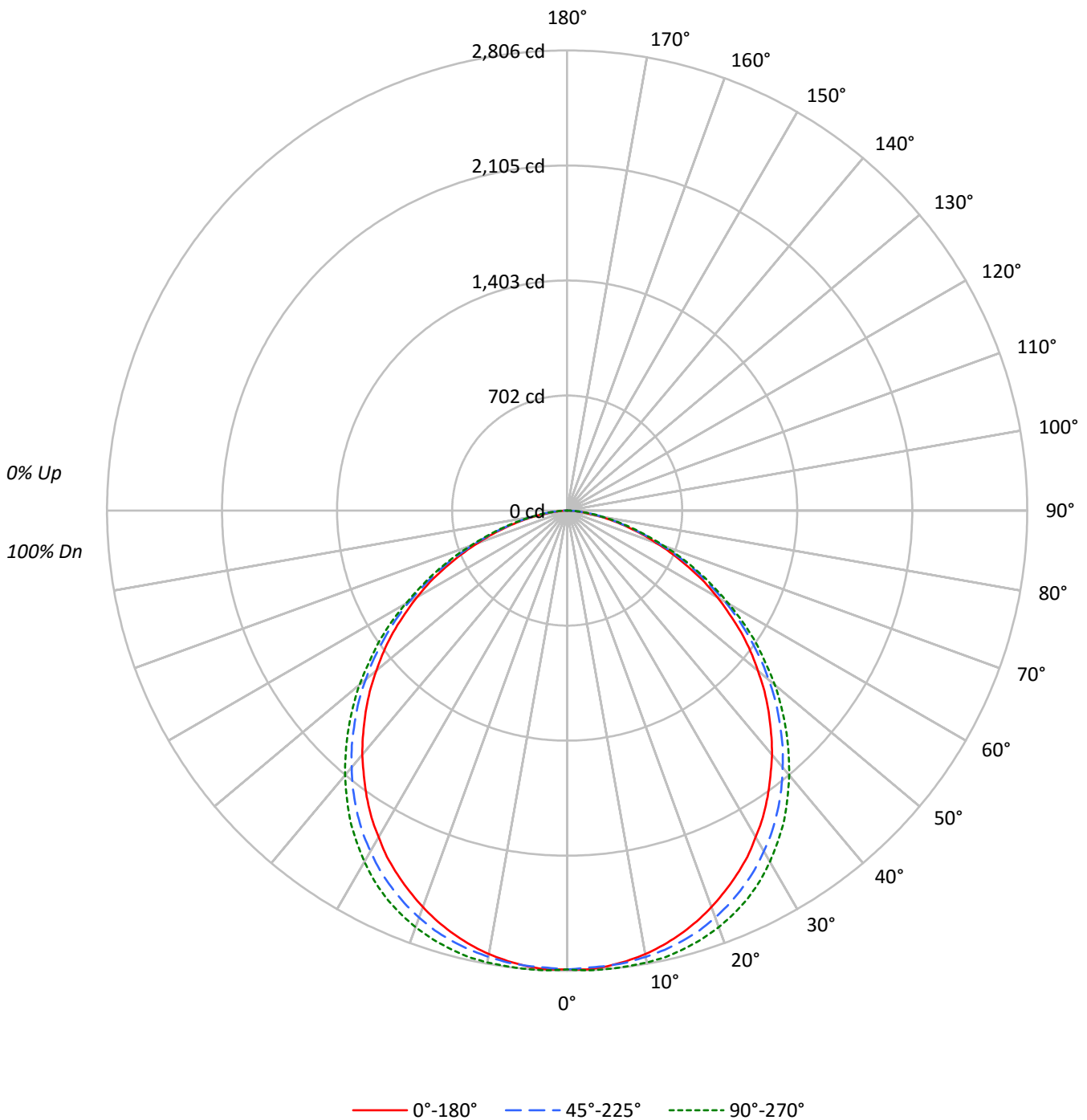
Input Watts (W): 61.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	95	98	95	92	94	92	90	91	89	87	85					85			
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	71					71			
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61					61			
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	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	47	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	30	42	35	30	41	35	30	40	34	30	28					28			
10	54	41	33	28	53	40	33	28	39	32	27	38	32	27	37	31	27	26					26			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3765	3765	3765
5°	3768	3765	3790
10°	3753	3775	3823
15°	3724	3784	3852
20°	3684	3781	3871
25°	3635	3764	3872
30°	3572	3728	3842
35°	3500	3674	3790
40°	3414	3591	3700
45°	3307	3488	3591
50°	3178	3360	3462
55°	3040	3193	3295
60°	2845	2991	3064
65°	2598	2736	2805
70°	2282	2400	2464
75°	1931	2030	2100
80°	1533	1681	1722
85°	1047	1255	1213



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	265.9	3.5
10°-20°	767.6	10.1
20°-30°	1166.5	15.4
30°-40°	1391.9	18.4
40°-50°	1405.8	18.6
50°-60°	1211.1	16.0
60°-70°	844.3	11.2
70°-80°	418.4	5.5
80°-90°	97.5	1.3
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°	2199.9	29.1
0°-40°	3591.8	47.5
0°-60°	6208.7	82.0
0°-90°	7569.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7569.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2798	2798	2798	2798	2798	
5°	2790	2787	2787	2801	2806	265
15°	2673	2687	2717	2752	2766	754
25°	2448	2481	2535	2587	2608	1128
35°	2131	2166	2237	2288	2307	1332
45°	1738	1776	1833	1876	1887	1340
55°	1296	1323	1361	1394	1404	1155
65°	816	832	860	868	881	810
75°	372	377	390	399	404	400
85°	68	81	81	76	79	87
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2798.1	2798.1	2798.1	2798.1	2798.1
2.5°	2800.8	2795.4	2790.0	2800.8	2806.2
5°	2790.0	2787.3	2787.3	2800.8	2806.2
7.5°	2771.0	2771.0	2779.1	2798.1	2803.5
10°	2746.6	2752.0	2762.9	2790.0	2798.1
12.5°	2714.0	2724.9	2743.9	2776.4	2787.3
15°	2673.4	2686.9	2716.8	2752.0	2765.6
17.5°	2627.3	2646.3	2684.2	2724.9	2738.4
20°	2573.1	2597.5	2640.8	2686.9	2703.2
22.5°	2513.4	2543.2	2592.0	2640.8	2659.8
25°	2448.3	2480.9	2535.1	2586.6	2608.3
27.5°	2380.6	2413.1	2472.7	2524.3	2545.9
30°	2299.2	2337.2	2399.5	2453.8	2472.7
32.5°	2220.6	2258.5	2323.6	2372.4	2391.4
35°	2131.1	2166.4	2236.9	2288.4	2307.3
37.5°	2036.2	2076.9	2144.7	2190.8	2207.0
40°	1944.0	1979.3	2044.3	2090.4	2106.7
42.5°	1841.0	1879.0	1944.0	1984.7	1998.3
45°	1738.0	1775.9	1832.9	1876.2	1887.1
47.5°	1632.2	1667.5	1724.4	1759.7	1770.5
50°	1518.3	1550.9	1605.1	1640.4	1653.9
52.5°	1409.9	1439.7	1485.8	1515.6	1523.8
55°	1296.0	1323.1	1361.1	1393.6	1404.5
57.5°	1174.0	1203.8	1239.1	1266.2	1274.3
60°	1057.4	1081.8	1111.6	1136.0	1138.8
62.5°	943.5	954.4	981.5	1003.2	1005.9
65°	816.1	832.4	859.5	867.6	881.2
67.5°	699.5	710.4	732.1	742.9	753.8
70°	580.2	588.4	610.1	623.6	626.3
72.5°	477.2	479.9	496.2	507.0	509.7
75°	371.5	376.9	390.4	398.6	404.0
77.5°	282.0	287.4	298.2	303.7	303.7
80°	197.9	206.1	216.9	219.6	222.3
82.5°	127.4	138.3	146.4	149.1	143.7
85°	67.8	81.3	81.3	75.9	78.6
87.5°	24.4	29.8	32.5	35.2	35.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)