

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: P297035

Luminaire Tested: **D3X-WG-80L83050-LD5-UNV-24-T1-W2A-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297035
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-80L83050-LD5-UNV-24-T1-W2A-3500K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH RECTANGULAR PERF LENS
Light Source: (504) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7582.0 lumens
Efficiency: N/A
Efficacy: 124.9 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

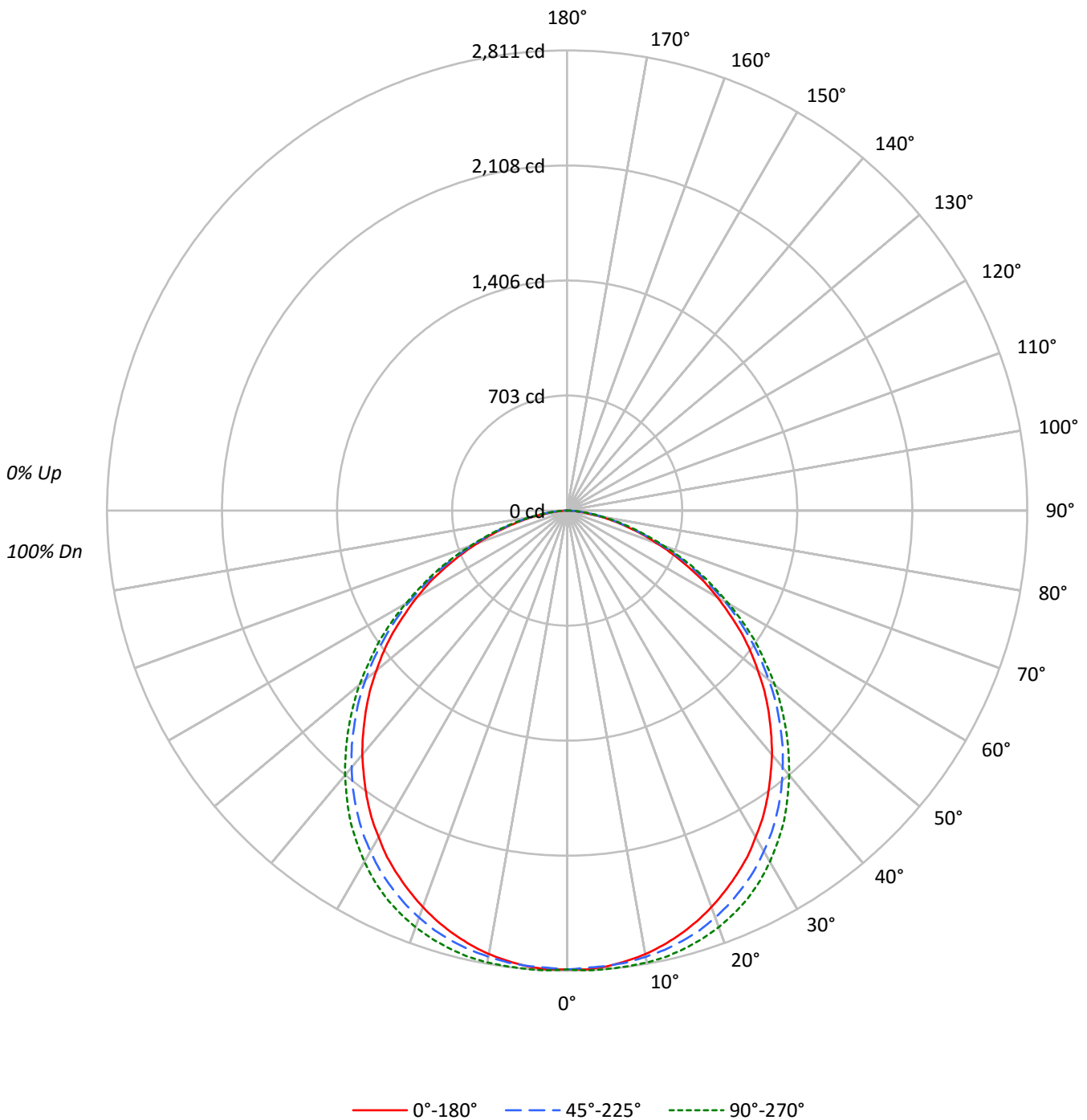
Input Watts (W): 60.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3771	3771	3771
5°	3775	3771	3797
10°	3759	3781	3829
15°	3730	3791	3859
20°	3691	3788	3877
25°	3641	3770	3879
30°	3578	3734	3848
35°	3506	3680	3796
40°	3420	3597	3707
45°	3313	3494	3597
50°	3184	3366	3468
55°	3045	3198	3300
60°	2850	2997	3070
65°	2603	2741	2810
70°	2286	2404	2468
75°	1934	2033	2104
80°	1537	1684	1726
85°	1048	1258	1216



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	266.3	3.5
10°-20°	768.9	10.1
20°-30°	1168.5	15.4
30°-40°	1394.3	18.4
40°-50°	1408.2	18.6
50°-60°	1213.2	16.0
60°-70°	845.8	11.2
70°-80°	419.1	5.5
80°-90°	97.7	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°	2203.7	29.1
0°-40°	3598.0	47.5
0°-60°	6219.4	82.0
0°-90°	7582.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7582.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2803	2803	2803	2803	2803	
5°	2795	2792	2792	2806	2811	265
15°	2678	2692	2721	2757	2770	755
25°	2452	2485	2540	2591	2613	1130
35°	2135	2170	2241	2292	2311	1334
45°	1741	1779	1836	1880	1890	1342
55°	1298	1325	1363	1396	1407	1157
65°	818	834	861	869	883	812
75°	372	378	391	399	405	401
85°	68	82	82	76	79	87
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2802.9	2802.9	2802.9	2802.9	2802.9
2.5°	2805.6	2800.2	2794.8	2805.6	2811.1
5°	2794.8	2792.0	2792.0	2805.6	2811.1
7.5°	2775.7	2775.7	2783.9	2802.9	2808.3
10°	2751.3	2756.7	2767.6	2794.8	2802.9
12.5°	2718.7	2729.6	2748.6	2781.2	2792.0
15°	2678.0	2691.5	2721.4	2756.7	2770.3
17.5°	2631.8	2650.8	2688.8	2729.6	2743.2
20°	2577.5	2601.9	2645.4	2691.5	2707.8
22.5°	2517.7	2547.6	2596.5	2645.4	2664.4
25°	2452.5	2485.1	2539.5	2591.1	2612.8
27.5°	2384.6	2417.2	2477.0	2528.6	2550.3
30°	2303.2	2341.2	2403.7	2458.0	2477.0
32.5°	2224.4	2262.4	2327.6	2376.5	2395.5
35°	2134.8	2170.1	2240.7	2292.3	2311.3
37.5°	2039.7	2080.5	2148.4	2194.5	2210.8
40°	1947.4	1982.7	2047.9	2094.0	2110.3
42.5°	1844.2	1882.2	1947.4	1988.1	2001.7
45°	1741.0	1779.0	1836.0	1879.5	1890.3
47.5°	1635.0	1670.3	1727.4	1762.7	1773.5
50°	1521.0	1553.5	1607.9	1643.2	1656.8
52.5°	1412.3	1442.2	1488.4	1518.2	1526.4
55°	1298.2	1325.4	1363.4	1396.0	1406.9
57.5°	1176.0	1205.9	1241.2	1268.4	1276.5
60°	1059.2	1083.7	1113.6	1138.0	1140.7
62.5°	945.2	956.0	983.2	1004.9	1007.6
65°	817.5	833.8	861.0	869.1	882.7
67.5°	700.7	711.6	733.3	744.2	755.0
70°	581.2	589.4	611.1	624.7	627.4
72.5°	478.0	480.7	497.0	507.9	510.6
75°	372.1	377.5	391.1	399.3	404.7
77.5°	282.5	287.9	298.8	304.2	304.2
80°	198.3	206.4	217.3	220.0	222.7
82.5°	127.7	138.5	146.7	149.4	143.9
85°	67.9	81.5	81.5	76.0	78.8
87.5°	24.4	29.9	32.6	35.3	35.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)