

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: P297020

Luminaire Tested: **D3X-WG-60L83050-LD5-UNV-24-T1-W2A-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297020
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-60L83050-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: 5665.0 lumens
Efficiency: N/A
Efficacy: 131.1 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

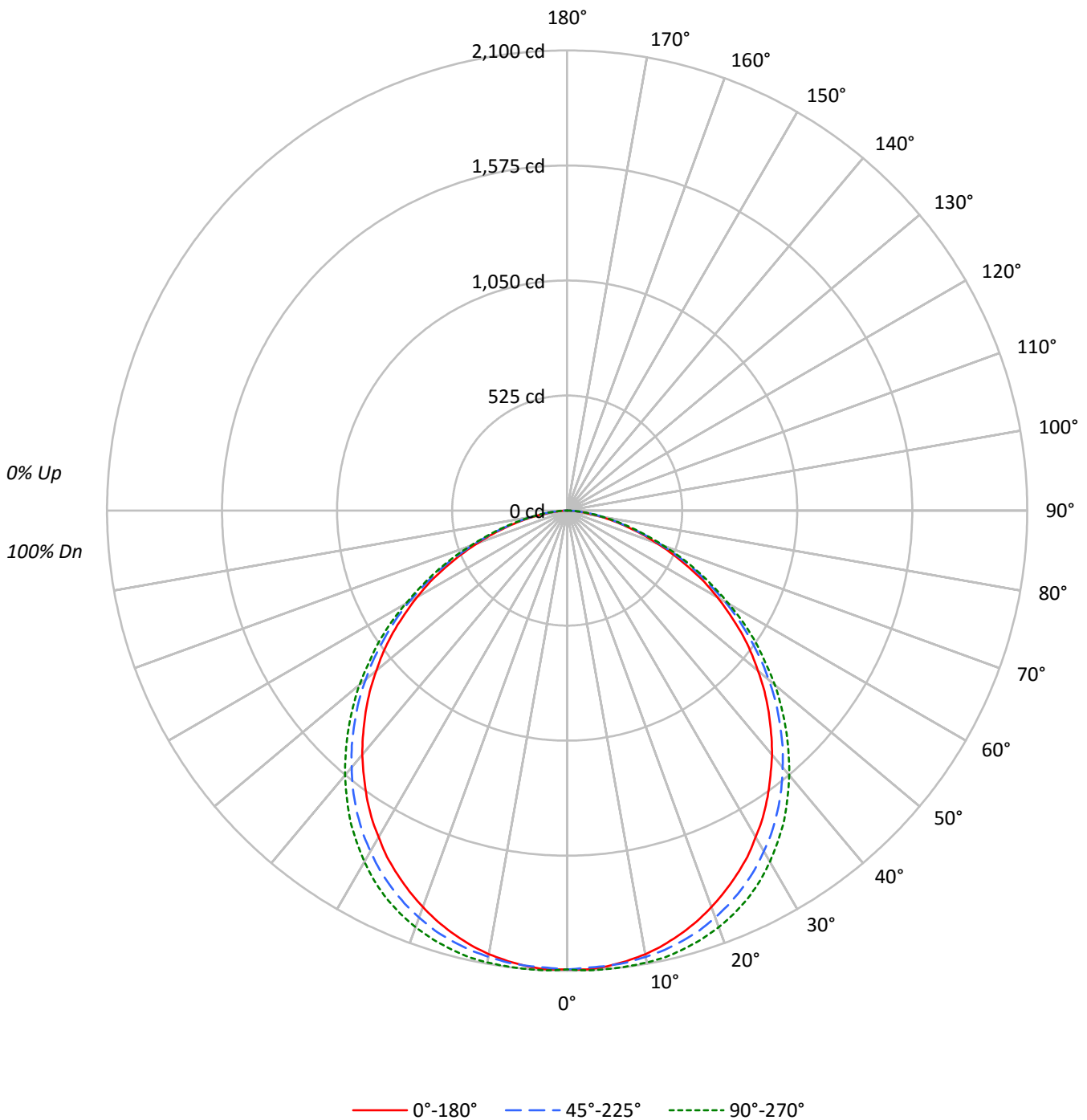
Input Watts (W): 43.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	101	97	107	103	99	95	98	95	92	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52
5	77	64	56	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	42	40
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	47	42	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	27	38	32	27	37	31	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2818	2818	2818
5°	2820	2818	2837
10°	2809	2825	2861
15°	2787	2832	2883
20°	2757	2830	2897
25°	2720	2817	2898
30°	2673	2790	2875
35°	2620	2750	2837
40°	2556	2687	2770
45°	2475	2610	2688
50°	2379	2515	2591
55°	2275	2390	2466
60°	2130	2239	2294
65°	1945	2048	2100
70°	1709	1796	1844
75°	1445	1519	1572
80°	1148	1258	1289
85°	783	940	908



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	199.0	3.5
10°-20°	574.5	10.1
20°-30°	873.0	15.4
30°-40°	1041.8	18.4
40°-50°	1052.1	18.6
50°-60°	906.5	16.0
60°-70°	631.9	11.2
70°-80°	313.2	5.5
80°-90°	73.0	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°	1646.5	29.1
0°-40°	2688.3	47.5
0°-60°	4646.9	82.0
0°-90°	5665.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5665.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2094	2094	2094	2094	2094	
5°	2088	2086	2086	2096	2100	198
15°	2001	2011	2033	2060	2070	564
25°	1832	1857	1897	1936	1952	844
35°	1595	1621	1674	1713	1727	997
45°	1301	1329	1372	1404	1412	1003
55°	970	990	1019	1043	1051	865
65°	611	623	643	649	660	607
75°	278	282	292	298	302	300
85°	51	61	61	57	59	65
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2094.2	2094.2	2094.2	2094.2	2094.2
2.5°	2096.3	2092.2	2088.1	2096.3	2100.3
5°	2088.1	2086.1	2086.1	2096.3	2100.3
7.5°	2073.9	2073.9	2080.0	2094.2	2098.3
10°	2055.7	2059.7	2067.8	2088.1	2094.2
12.5°	2031.3	2039.4	2053.6	2078.0	2086.1
15°	2000.9	2011.0	2033.4	2059.7	2069.9
17.5°	1966.4	1980.6	2009.0	2039.4	2049.6
20°	1925.8	1944.1	1976.5	2011.0	2023.2
22.5°	1881.2	1903.5	1940.0	1976.5	1990.7
25°	1832.5	1856.8	1897.4	1935.9	1952.2
27.5°	1781.7	1806.1	1850.7	1889.3	1905.5
30°	1720.8	1749.3	1795.9	1836.5	1850.7
32.5°	1662.0	1690.4	1739.1	1775.6	1789.8
35°	1595.0	1621.4	1674.2	1712.7	1726.9
37.5°	1524.0	1554.4	1605.2	1639.7	1651.8
40°	1455.0	1481.4	1530.1	1564.6	1576.8
42.5°	1377.9	1406.3	1455.0	1485.4	1495.6
45°	1300.8	1329.2	1371.8	1404.3	1412.4
47.5°	1221.6	1248.0	1290.6	1317.0	1325.1
50°	1136.4	1160.8	1201.3	1227.7	1237.9
52.5°	1055.2	1077.6	1112.1	1134.4	1140.5
55°	970.0	990.3	1018.7	1043.1	1051.2
57.5°	878.7	901.0	927.4	947.7	953.8
60°	791.4	809.7	832.0	850.3	852.3
62.5°	706.2	714.3	734.6	750.8	752.9
65°	610.8	623.0	643.3	649.4	659.5
67.5°	523.6	531.7	547.9	556.0	564.1
70°	434.3	440.4	456.6	466.7	468.8
72.5°	357.2	359.2	371.4	379.5	381.5
75°	278.0	282.1	292.2	298.3	302.4
77.5°	211.0	215.1	223.2	227.3	227.3
80°	148.1	154.2	162.3	164.4	166.4
82.5°	95.4	103.5	109.6	111.6	107.6
85°	50.7	60.9	60.9	56.8	58.8
87.5°	18.3	22.3	24.4	26.4	26.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)