

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: P297019

Luminaire Tested: **D3X-WG-60L83050-LD5-UNV-24-T1-W2A-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297019
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-3000K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH RECTANGULAR PERF LENS
Light Source: (504) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5353.0 lumens
Efficiency: N/A
Efficacy: 123.9 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

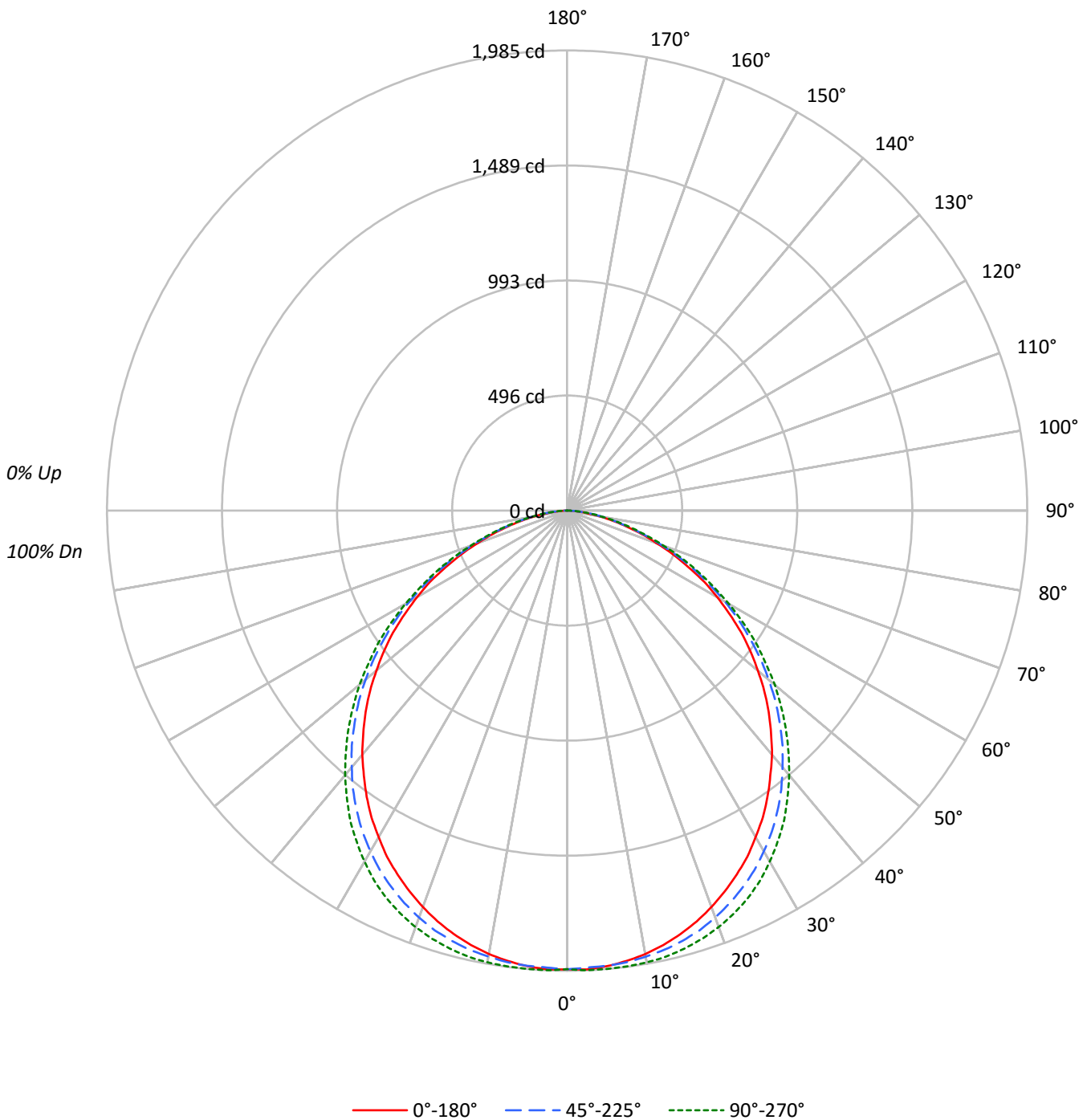
Input Watts (W): 43.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2663	2663	2663
5°	2665	2662	2680
10°	2654	2670	2704
15°	2634	2676	2724
20°	2606	2674	2737
25°	2571	2662	2739
30°	2526	2637	2717
35°	2476	2598	2680
40°	2415	2539	2617
45°	2339	2467	2539
50°	2248	2376	2448
55°	2150	2258	2330
60°	2012	2116	2167
65°	1838	1935	1984
70°	1614	1697	1742
75°	1366	1435	1485
80°	1085	1189	1218
85°	739	888	858



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	188.0	3.5
10°-20°	542.8	10.1
20°-30°	825.0	15.4
30°-40°	984.4	18.4
40°-50°	994.2	18.6
50°-60°	856.6	16.0
60°-70°	597.1	11.2
70°-80°	295.9	5.5
80°-90°	69.0	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°	1555.8	29.1
0°-40°	2540.2	47.5
0°-60°	4391.0	82.0
0°-90°	5353.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5353.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1979	1979	1979	1979	1979	
5°	1973	1971	1971	1981	1985	187
15°	1891	1900	1921	1946	1956	533
25°	1732	1754	1793	1829	1845	798
35°	1507	1532	1582	1618	1632	942
45°	1229	1256	1296	1327	1335	947
55°	917	936	963	986	993	817
65°	577	589	608	614	623	573
75°	263	266	276	282	286	283
85°	48	58	58	54	56	61
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1978.9	1978.9	1978.9	1978.9	1978.9
2.5°	1980.8	1977.0	1973.1	1980.8	1984.6
5°	1973.1	1971.2	1971.2	1980.8	1984.6
7.5°	1959.7	1959.7	1965.5	1978.9	1982.7
10°	1942.5	1946.3	1954.0	1973.1	1978.9
12.5°	1919.4	1927.1	1940.5	1963.6	1971.2
15°	1890.7	1900.3	1921.4	1946.3	1955.9
17.5°	1858.1	1871.5	1898.4	1927.1	1936.7
20°	1819.7	1837.0	1867.7	1900.3	1911.8
22.5°	1777.6	1798.6	1833.2	1867.7	1881.1
25°	1731.5	1754.5	1792.9	1829.3	1844.7
27.5°	1683.6	1706.6	1748.8	1785.2	1800.6
30°	1626.1	1652.9	1697.0	1735.4	1748.8
32.5°	1570.5	1597.3	1643.3	1677.8	1691.3
35°	1507.2	1532.1	1582.0	1618.4	1631.8
37.5°	1440.1	1468.8	1516.8	1549.4	1560.9
40°	1374.9	1399.8	1445.8	1478.4	1489.9
42.5°	1302.0	1328.8	1374.9	1403.6	1413.2
45°	1229.1	1256.0	1296.3	1326.9	1334.6
47.5°	1154.4	1179.3	1219.5	1244.5	1252.1
50°	1073.8	1096.8	1135.2	1160.1	1169.7
52.5°	997.1	1018.2	1050.8	1071.9	1077.7
55°	916.6	935.8	962.6	985.6	993.3
57.5°	830.3	851.4	876.3	895.5	901.2
60°	747.8	765.1	786.2	803.4	805.4
62.5°	667.3	675.0	694.1	709.5	711.4
65°	577.2	588.7	607.9	613.6	623.2
67.5°	494.7	502.4	517.7	525.4	533.1
70°	410.4	416.1	431.4	441.0	442.9
72.5°	337.5	339.4	350.9	358.6	360.5
75°	262.7	266.5	276.1	281.9	285.7
77.5°	199.4	203.3	210.9	214.8	214.8
80°	140.0	145.7	153.4	155.3	157.2
82.5°	90.1	97.8	103.5	105.5	101.6
85°	47.9	57.5	57.5	53.7	55.6
87.5°	17.3	21.1	23.0	24.9	24.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)