

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: P297097

Luminaire Tested: **D3X-WG-60L82765-LD5-UNV-24-T1-W2A-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297097
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-60L82765-LD5-UNV-24-T1-W2A-4500K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH RECTANGULAR PERF LENS
Light Source: (504) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5755.0 lumens
Efficiency: N/A
Efficacy: 130.5 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

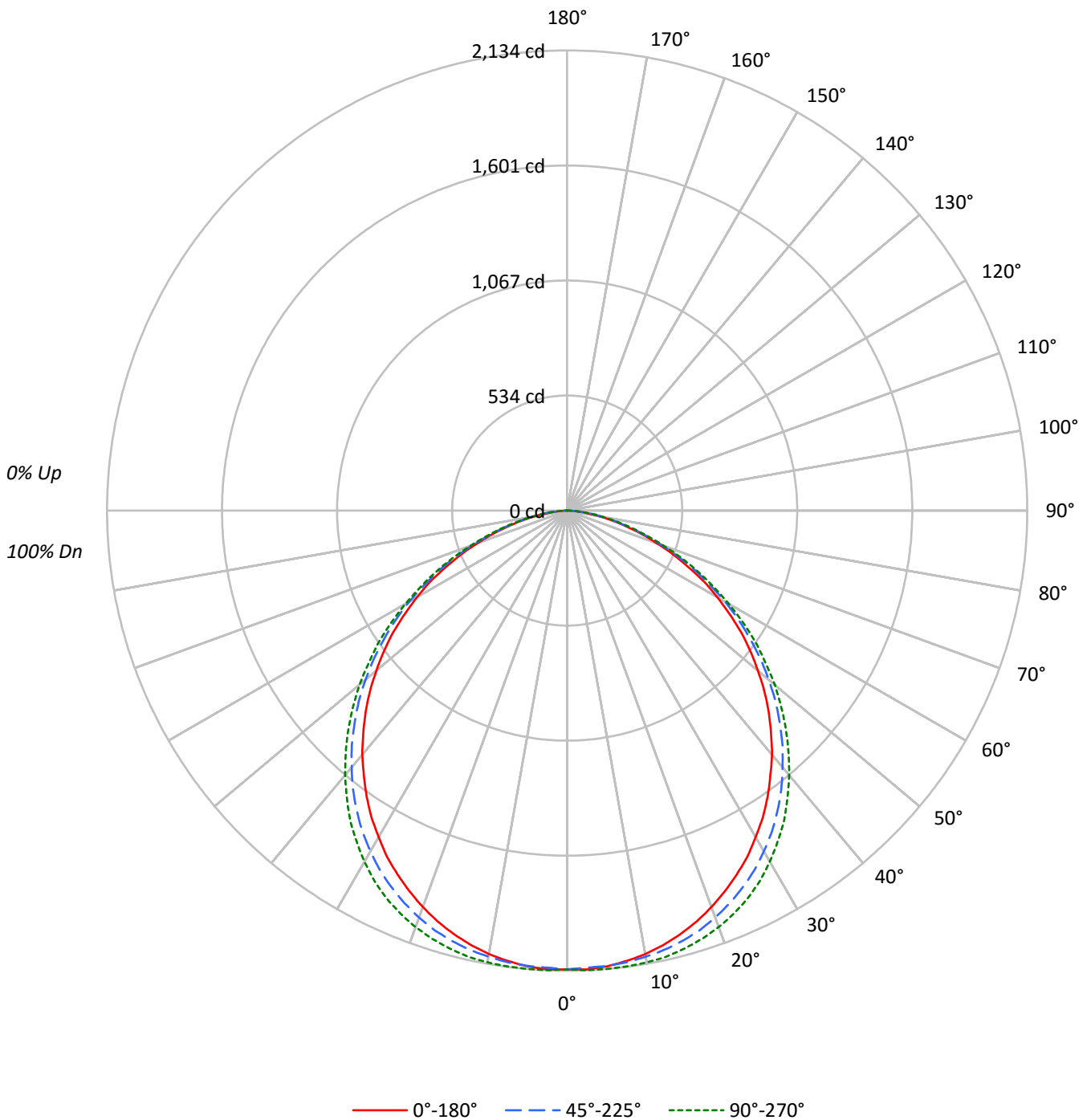
Input Watts (W): 44.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2863	2863	2863
5°	2865	2862	2882
10°	2853	2870	2907
15°	2831	2877	2929
20°	2801	2875	2943
25°	2764	2862	2944
30°	2716	2835	2921
35°	2662	2794	2882
40°	2596	2730	2813
45°	2514	2652	2730
50°	2417	2555	2632
55°	2312	2428	2505
60°	2164	2274	2330
65°	1975	2081	2133
70°	1736	1825	1873
75°	1468	1543	1597
80°	1166	1278	1309
85°	795	954	923



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	202.1	3.5
10°-20°	583.6	10.1
20°-30°	886.9	15.4
30°-40°	1058.3	18.4
40°-50°	1068.8	18.6
50°-60°	920.9	16.0
60°-70°	642.0	11.2
70°-80°	318.1	5.5
80°-90°	74.2	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°	1672.7	29.1
0°-40°	2731.0	47.5
0°-60°	4720.7	82.0
0°-90°	5755.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5755.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2128	2128	2128	2128	2128	
5°	2121	2119	2119	2130	2134	201
15°	2033	2043	2066	2092	2103	573
25°	1862	1886	1928	1967	1983	858
35°	1620	1647	1701	1740	1754	1013
45°	1321	1350	1394	1427	1435	1019
55°	985	1006	1035	1060	1068	878
65°	620	633	654	660	670	616
75°	282	287	297	303	307	304
85°	52	62	62	58	60	66
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2127.5	2127.5	2127.5	2127.5	2127.5
2.5°	2129.6	2125.4	2121.3	2129.6	2133.7
5°	2121.3	2119.3	2119.3	2129.6	2133.7
7.5°	2106.9	2106.9	2113.1	2127.5	2131.6
10°	2088.3	2092.5	2100.7	2121.3	2127.5
12.5°	2063.6	2071.8	2086.3	2111.0	2119.3
15°	2032.7	2043.0	2065.7	2092.5	2102.8
17.5°	1997.6	2012.1	2040.9	2071.8	2082.1
20°	1956.4	1974.9	2007.9	2043.0	2055.3
22.5°	1911.0	1933.7	1970.8	2007.9	2022.4
25°	1861.6	1886.3	1927.5	1966.7	1983.2
27.5°	1810.0	1834.8	1880.1	1919.3	1935.8
30°	1748.2	1777.0	1824.5	1865.7	1880.1
32.5°	1688.4	1717.3	1766.7	1803.8	1818.3
35°	1620.4	1647.2	1700.8	1739.9	1754.4
37.5°	1548.2	1579.1	1630.7	1665.7	1678.1
40°	1478.1	1504.9	1554.4	1589.4	1601.8
42.5°	1399.8	1428.6	1478.1	1509.0	1519.3
45°	1321.4	1350.3	1393.6	1426.6	1434.8
47.5°	1241.0	1267.8	1311.1	1337.9	1346.2
50°	1154.5	1179.2	1220.4	1247.2	1257.5
52.5°	1072.0	1094.7	1129.7	1152.4	1158.6
55°	985.4	1006.0	1034.9	1059.6	1067.9
57.5°	892.6	915.3	942.1	962.7	968.9
60°	804.0	822.6	845.2	863.8	865.8
62.5°	717.4	725.7	746.3	762.8	764.8
65°	620.5	632.9	653.5	659.7	670.0
67.5°	531.9	540.1	556.6	564.9	573.1
70°	441.2	447.4	463.8	474.2	476.2
72.5°	362.8	364.9	377.3	385.5	387.6
75°	282.4	286.6	296.9	303.0	307.2
77.5°	214.4	218.5	226.8	230.9	230.9
80°	150.5	156.7	164.9	167.0	169.0
82.5°	96.9	105.1	111.3	113.4	109.3
85°	51.5	61.8	61.8	57.7	59.8
87.5°	18.6	22.7	24.7	26.8	26.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)