

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: P297029

Luminaire Tested: **D3X-WG-74L83050-LD5-UNV-24-T1-W2A-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297029
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-74L83050-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: 6606.0 lumens
Efficiency: N/A
Efficacy: 120.1 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

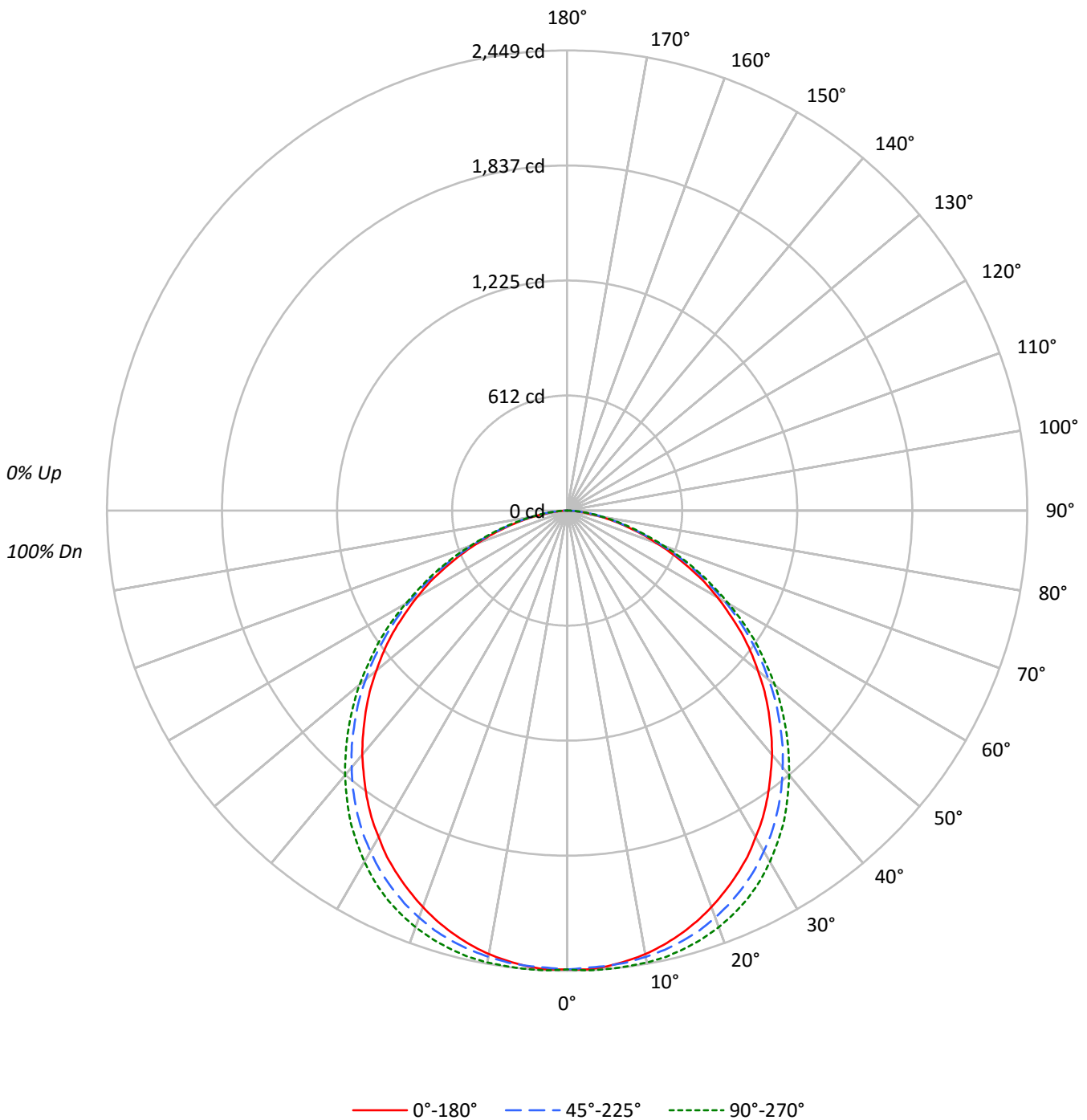
Input Watts (W): 55
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3286	3286	3286
5°	3289	3286	3308
10°	3275	3294	3337
15°	3250	3303	3362
20°	3215	3300	3378
25°	3172	3285	3380
30°	3118	3254	3353
35°	3055	3207	3308
40°	2980	3134	3230
45°	2886	3044	3134
50°	2774	2932	3022
55°	2653	2787	2875
60°	2484	2611	2675
65°	2268	2388	2449
70°	1992	2094	2150
75°	1685	1772	1833
80°	1338	1467	1503
85°	914	1096	1059



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	232.0	3.5
10°-20°	669.9	10.1
20°-30°	1018.1	15.4
30°-40°	1214.8	18.4
40°-50°	1226.9	18.6
50°-60°	1057.1	16.0
60°-70°	736.9	11.2
70°-80°	365.2	5.5
80°-90°	85.2	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°	1920.0	29.1
0°-40°	3134.8	47.5
0°-60°	5418.8	82.0
0°-90°	6606.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6606.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2442	2442	2442	2442	2442	
5°	2435	2433	2433	2444	2449	231
15°	2333	2345	2371	2402	2414	658
25°	2137	2165	2213	2258	2276	984
35°	1860	1891	1952	1997	2014	1163
45°	1517	1550	1600	1638	1647	1169
55°	1131	1155	1188	1216	1226	1008
65°	712	726	750	757	769	707
75°	324	329	341	348	353	349
85°	59	71	71	66	69	76
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2442.1	2442.1	2442.1	2442.1	2442.1
2.5°	2444.5	2439.7	2435.0	2444.5	2449.2
5°	2435.0	2432.6	2432.6	2444.5	2449.2
7.5°	2418.4	2418.4	2425.5	2442.1	2446.8
10°	2397.1	2401.9	2411.3	2435.0	2442.1
12.5°	2368.7	2378.2	2394.8	2423.2	2432.6
15°	2333.2	2345.1	2371.1	2401.9	2413.7
17.5°	2293.0	2309.6	2342.7	2378.2	2390.0
20°	2245.7	2267.0	2304.8	2345.1	2359.3
22.5°	2193.6	2219.7	2262.3	2304.8	2321.4
25°	2136.8	2165.2	2212.6	2257.5	2276.5
27.5°	2077.7	2106.1	2158.1	2203.1	2222.0
30°	2006.7	2039.8	2094.2	2141.6	2158.1
32.5°	1938.1	1971.2	2028.0	2070.6	2087.1
35°	1860.0	1890.7	1952.3	1997.2	2013.8
37.5°	1777.1	1812.6	1871.8	1912.0	1926.2
40°	1696.7	1727.5	1784.2	1824.5	1838.7
42.5°	1606.8	1639.9	1696.7	1732.2	1744.0
45°	1516.8	1550.0	1599.7	1637.5	1647.0
47.5°	1424.6	1455.3	1505.0	1535.8	1545.2
50°	1325.2	1353.6	1400.9	1431.7	1443.5
52.5°	1230.5	1256.5	1296.8	1322.8	1329.9
55°	1131.1	1154.8	1187.9	1216.3	1225.8
57.5°	1024.6	1050.7	1081.4	1105.1	1112.2
60°	922.9	944.2	970.2	991.5	993.9
62.5°	823.5	833.0	856.6	875.6	877.9
65°	712.3	726.5	750.1	757.2	769.1
67.5°	610.5	620.0	638.9	648.4	657.9
70°	506.4	513.5	532.4	544.3	546.6
72.5°	416.5	418.8	433.0	442.5	444.9
75°	324.2	328.9	340.8	347.9	352.6
77.5°	246.1	250.8	260.3	265.0	265.0
80°	172.7	179.8	189.3	191.7	194.0
82.5°	111.2	120.7	127.8	130.2	125.4
85°	59.2	71.0	71.0	66.3	68.6
87.5°	21.3	26.0	28.4	30.8	30.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)