

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: P297030

Luminaire Tested: **D3X-WG-74L83050-LD5-UNV-24-T1-W2A-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297030
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-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: 6991.0 lumens
Efficiency: N/A
Efficacy: 126.9 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

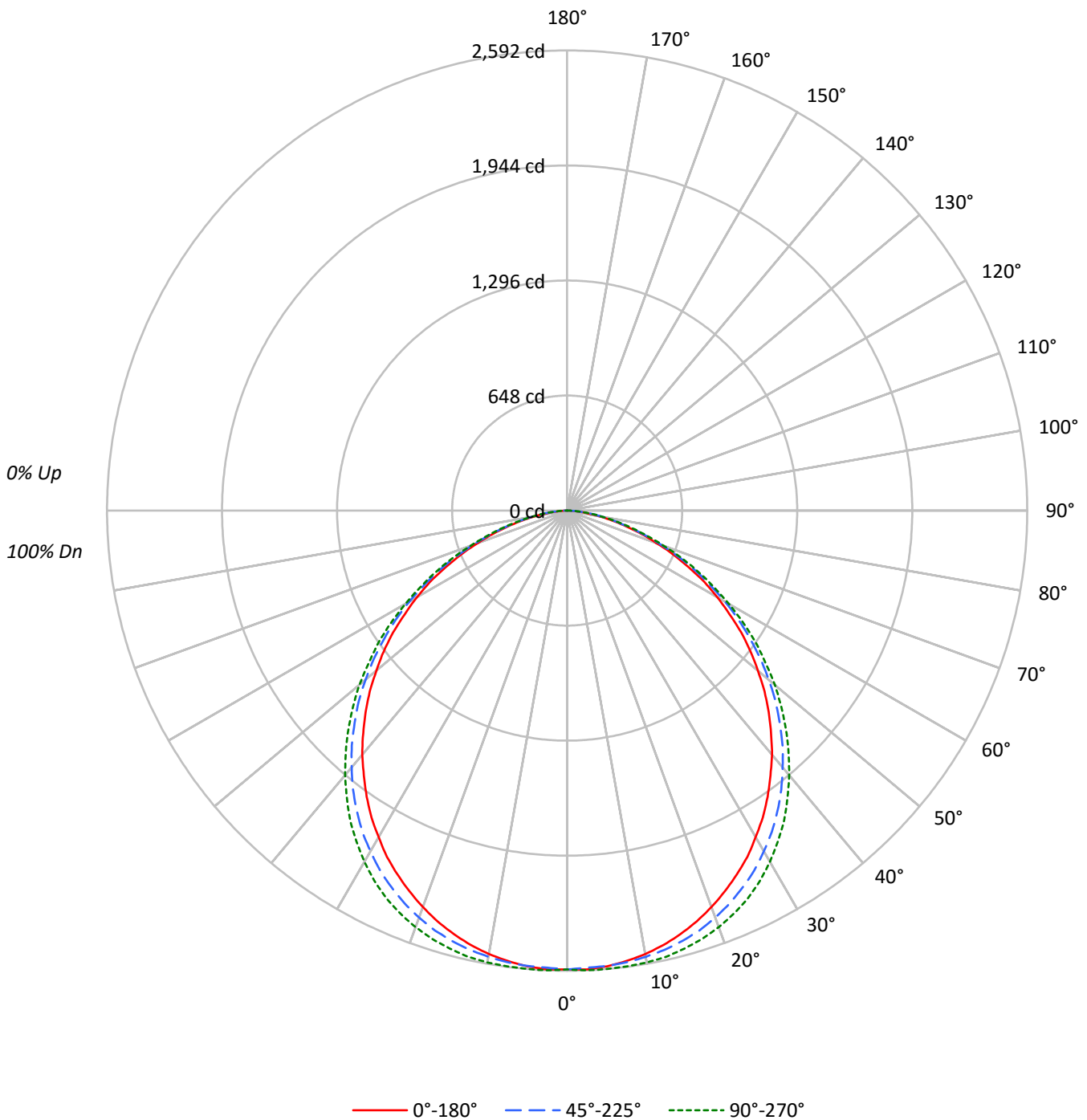
Input Watts (W): 55.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	3477	3477	3477
5°	3480	3477	3501
10°	3466	3487	3531
15°	3439	3495	3558
20°	3403	3493	3575
25°	3357	3476	3577
30°	3299	3443	3548
35°	3233	3393	3500
40°	3154	3316	3418
45°	3054	3221	3317
50°	2936	3103	3198
55°	2808	2949	3043
60°	2628	2763	2830
65°	2400	2528	2591
70°	2108	2217	2276
75°	1784	1875	1940
80°	1416	1552	1592
85°	966	1159	1121



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	245.6	3.5
10°-20°	709.0	10.1
20°-30°	1077.4	15.4
30°-40°	1285.6	18.4
40°-50°	1298.4	18.6
50°-60°	1118.7	16.0
60°-70°	779.8	11.2
70°-80°	386.5	5.5
80°-90°	90.1	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°	2031.9	29.1
0°-40°	3317.5	47.5
0°-60°	5734.6	82.0
0°-90°	6991.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6991.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2584	2584	2584	2584	2584	
5°	2577	2574	2574	2587	2592	245
15°	2469	2482	2509	2542	2554	696
25°	2261	2291	2342	2389	2409	1042
35°	1968	2001	2066	2114	2131	1230
45°	1605	1640	1693	1733	1743	1237
55°	1197	1222	1257	1287	1297	1067
65°	754	769	794	801	814	749
75°	343	348	361	368	373	370
85°	63	75	75	70	73	80
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2584.4	2584.4	2584.4	2584.4	2584.4
2.5°	2586.9	2581.9	2576.9	2586.9	2591.9
5°	2576.9	2574.4	2574.4	2586.9	2591.9
7.5°	2559.4	2559.4	2566.9	2584.4	2589.4
10°	2536.8	2541.9	2551.9	2576.9	2584.4
12.5°	2506.8	2516.8	2534.3	2564.4	2574.4
15°	2469.2	2481.7	2509.3	2541.9	2554.4
17.5°	2426.7	2444.2	2479.2	2516.8	2529.3
20°	2376.6	2399.1	2439.2	2481.7	2496.8
22.5°	2321.5	2349.0	2394.1	2439.2	2456.7
25°	2261.4	2291.4	2341.5	2389.1	2409.1
27.5°	2198.8	2228.8	2283.9	2331.5	2351.5
30°	2123.6	2158.7	2216.3	2266.4	2283.9
32.5°	2051.0	2086.1	2146.2	2191.3	2208.8
35°	1968.4	2000.9	2066.0	2113.6	2131.1
37.5°	1880.7	1918.3	1980.9	2023.5	2038.5
40°	1795.6	1828.1	1888.2	1930.8	1945.8
42.5°	1700.4	1735.5	1795.6	1833.1	1845.7
45°	1605.2	1640.3	1692.9	1733.0	1743.0
47.5°	1507.6	1540.1	1592.7	1625.3	1635.3
50°	1402.4	1432.5	1482.5	1515.1	1527.6
52.5°	1302.2	1329.8	1372.3	1399.9	1407.4
55°	1197.0	1222.1	1257.2	1287.2	1297.2
57.5°	1084.4	1111.9	1144.5	1169.5	1177.0
60°	976.7	999.2	1026.8	1049.3	1051.8
62.5°	871.5	881.5	906.6	926.6	929.1
65°	753.8	768.8	793.9	801.4	813.9
67.5°	646.1	656.1	676.2	686.2	696.2
70°	535.9	543.4	563.5	576.0	578.5
72.5°	440.8	443.3	458.3	468.3	470.8
75°	343.1	348.1	360.6	368.1	373.1
77.5°	260.4	265.5	275.5	280.5	280.5
80°	182.8	190.3	200.3	202.8	205.4
82.5°	117.7	127.7	135.2	137.7	132.7
85°	62.6	75.1	75.1	70.1	72.6
87.5°	22.5	27.5	30.1	32.6	32.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)