

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: P298245

Luminaire Tested: **D3X-WG-40L93050-LD5-UNV-22-T1-W2A-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P298245
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-6)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WG-40L93050-LD5-UNV-22-T1-W2A-5000K
Description: D3X LED 2x2 TUNABLE WHITE TROFFER
WITH RECTANGULAR PERF LENS
Light Source: (252) 90 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3509.0 lumens
Efficiency: N/A
Efficacy: 105.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.3 / 1.35
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

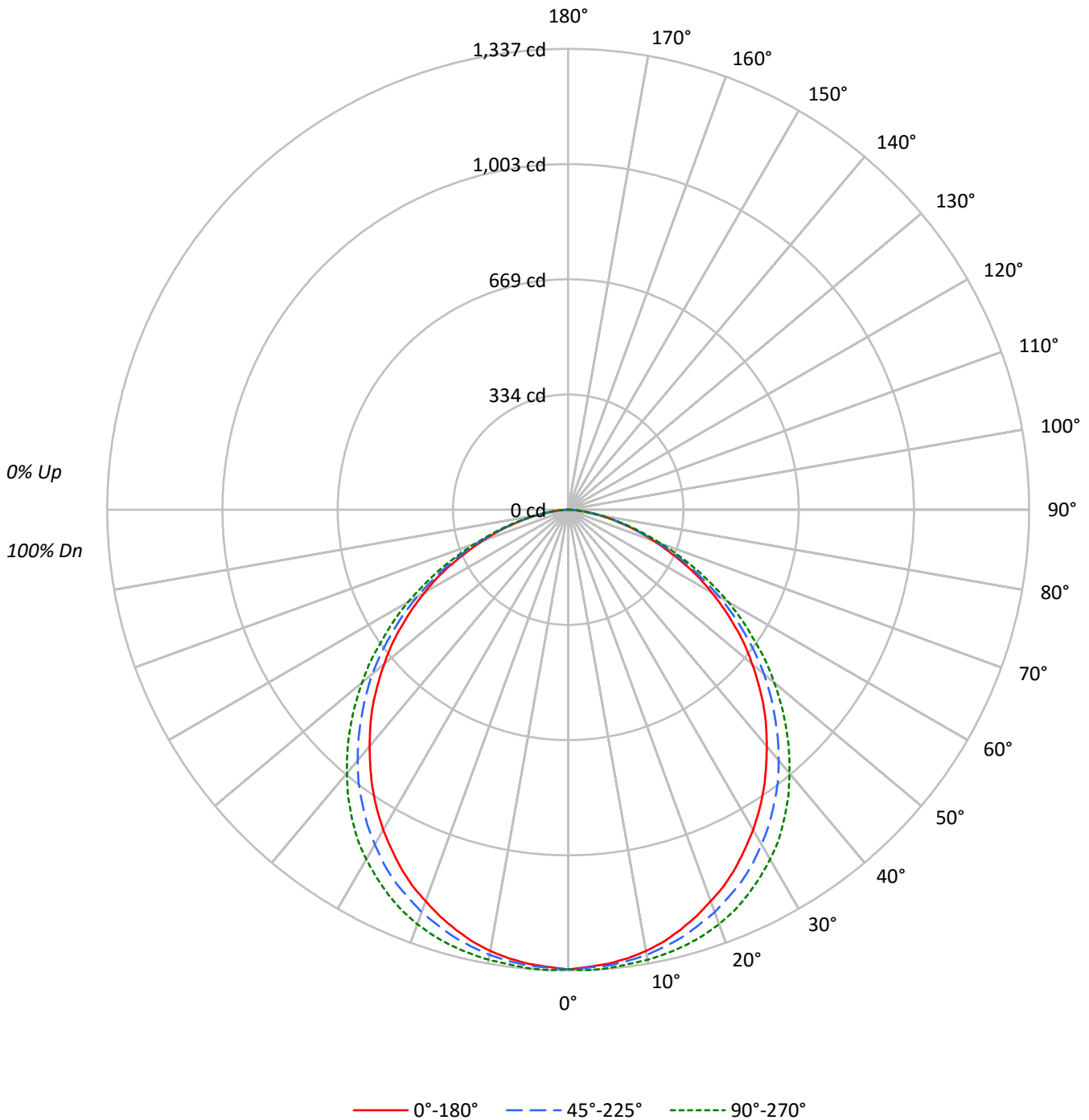
Input Watts (W): 33.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	96	98	95	93	95	92	90	91	89	87	85
2	100	92	86	80	97	90	84	79	87	82	77	83	79	76	80	77	74	72
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	61
4	84	72	64	57	82	71	63	57	68	61	56	66	60	55	64	59	54	52
5	77	65	56	49	75	64	55	49	61	54	49	59	53	48	58	52	48	45
6	71	58	50	43	69	57	49	43	56	48	43	54	47	42	52	47	42	40
7	66	53	44	38	64	52	44	38	51	43	38	49	43	38	48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	39	34	44	38	34	32
9	58	44	36	31	56	44	36	31	43	36	31	42	35	30	41	35	30	28
10	54	41	33	28	53	40	33	28	40	33	28	39	32	28	38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3588	3588	3588
5°	3572	3587	3607
10°	3552	3583	3624
15°	3513	3575	3648
20°	3461	3557	3664
25°	3407	3534	3661
30°	3333	3484	3640
35°	3249	3420	3591
40°	3147	3336	3507
45°	3048	3225	3402
50°	2916	3103	3267
55°	2770	2927	3084
60°	2586	2726	2887
65°	2360	2467	2609
70°	2066	2154	2242
75°	1762	1801	1879
80°	1415	1443	1472
85°	1034	979	920



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.2	3.6
10°-20°	362.3	10.3
20°-30°	547.7	15.6
30°-40°	650.5	18.5
40°-50°	653.1	18.6
50°-60°	557.8	15.9
60°-70°	384.3	11.0
70°-80°	186.4	5.3
80°-90°	40.8	1.2
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°	1036.2	29.5
0°-40°	1686.7	48.1
0°-60°	2897.6	82.6
0°-90°	3509.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3509.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1334	1334	1334	1334	1334	
5°	1322	1322	1328	1332	1335	126
15°	1261	1266	1283	1300	1309	355
25°	1147	1157	1190	1222	1233	528
35°	989	1004	1041	1080	1093	618
45°	801	812	847	883	894	616
55°	590	600	624	650	657	528
65°	371	371	387	404	410	367
75°	170	166	173	177	181	182
85°	34	34	32	30	30	41
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1333.5	1333.5	1333.5	1333.5	1333.5
2.5°	1327.9	1327.9	1329.8	1335.4	1337.2
5°	1322.3	1322.3	1327.9	1331.6	1335.4
7.5°	1313.0	1314.9	1320.5	1327.9	1329.8
10°	1300.0	1301.8	1311.2	1320.5	1326.1
12.5°	1283.2	1286.9	1298.1	1313.0	1318.6
15°	1260.9	1266.5	1283.2	1300.0	1309.3
17.5°	1236.7	1244.1	1262.7	1286.9	1296.3
20°	1208.7	1218.0	1242.2	1268.3	1279.5
22.5°	1180.8	1188.2	1216.2	1246.0	1259.0
25°	1147.3	1156.6	1190.1	1221.8	1232.9
27.5°	1110.0	1123.0	1158.4	1192.0	1203.1
30°	1072.8	1083.9	1121.2	1158.4	1171.5
32.5°	1031.8	1043.0	1083.9	1121.2	1136.1
35°	989.0	1003.9	1041.1	1080.2	1093.2
37.5°	942.4	959.2	998.3	1031.8	1048.5
40°	895.8	910.7	949.8	985.2	998.3
42.5°	849.3	862.3	899.6	936.8	948.0
45°	800.8	812.0	847.4	882.8	894.0
47.5°	748.7	761.7	795.3	825.1	838.1
50°	696.5	709.6	741.2	769.2	780.4
52.5°	646.3	653.7	683.5	709.6	722.6
55°	590.4	599.7	623.9	650.0	657.4
57.5°	536.4	542.0	566.2	588.5	599.7
60°	480.5	484.2	506.6	523.3	536.4
62.5°	428.4	428.4	445.1	463.7	471.2
65°	370.6	370.6	387.4	404.1	409.7
67.5°	314.8	318.5	329.7	342.7	346.4
70°	262.6	262.6	273.8	283.1	285.0
72.5°	216.0	214.2	219.8	227.2	230.9
75°	169.5	165.8	173.2	176.9	180.7
77.5°	128.5	126.6	130.4	134.1	134.1
80°	91.3	89.4	93.1	93.1	95.0
82.5°	59.6	61.5	61.5	59.6	57.7
85°	33.5	33.5	31.7	29.8	29.8
87.5°	11.2	11.2	11.2	13.0	13.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)