

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: P298157

Luminaire Tested: **D3X-WG-40L83050-LD5-UNV-22-T1-W2A-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P298157
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-40L83050-LD5-UNV-22-T1-W2A-3000K
Description: D3X LED 2x2 TUNABLE WHITE TROFFER
WITH RECTANGULAR PERF LENS
Light Source: (252) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3550.0 lumens
Efficiency: N/A
Efficacy: 110.9 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

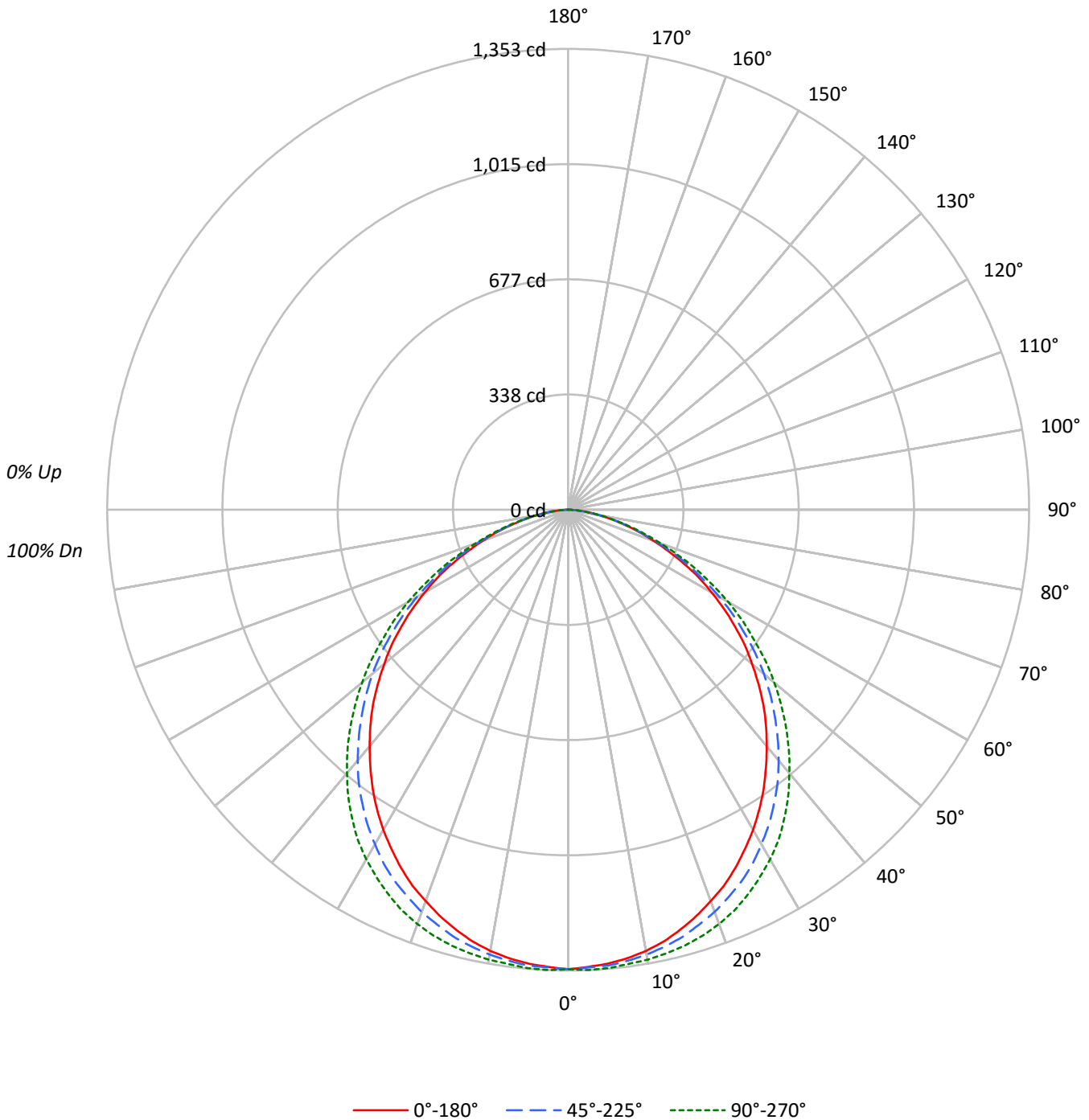
Input Watts (W): 32
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3630	3630	3630
5°	3614	3629	3649
10°	3594	3625	3666
15°	3554	3617	3690
20°	3502	3599	3707
25°	3446	3575	3703
30°	3372	3525	3683
35°	3287	3460	3633
40°	3184	3375	3548
45°	3083	3263	3442
50°	2950	3139	3305
55°	2802	2961	3120
60°	2616	2758	2920
65°	2388	2495	2639
70°	2090	2179	2268
75°	1783	1822	1901
80°	1430	1460	1489
85°	1047	988	929



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.7	3.6
10°-20°	366.5	10.3
20°-30°	554.1	15.6
30°-40°	658.1	18.5
40°-50°	660.7	18.6
50°-60°	564.4	15.9
60°-70°	388.8	11.0
70°-80°	188.5	5.3
80°-90°	41.2	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°	1048.3	29.5
0°-40°	1706.4	48.1
0°-60°	2931.4	82.6
0°-90°	3550.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3550.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1349	1349	1349	1349	1349	
5°	1338	1338	1343	1347	1351	127
15°	1276	1281	1298	1315	1325	360
25°	1161	1170	1204	1236	1247	534
35°	1000	1016	1053	1093	1106	625
45°	810	822	857	893	904	624
55°	597	607	631	658	665	534
65°	375	375	392	409	414	371
75°	172	168	175	179	183	184
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°	1349.1	1349.1	1349.1	1349.1	1349.1
2.5°	1343.4	1343.4	1345.3	1351.0	1352.8
5°	1337.8	1337.8	1343.4	1347.2	1351.0
7.5°	1328.4	1330.2	1335.9	1343.4	1345.3
10°	1315.2	1317.1	1326.5	1335.9	1341.5
12.5°	1298.2	1302.0	1313.3	1328.4	1334.0
15°	1275.6	1281.3	1298.2	1315.2	1324.6
17.5°	1251.1	1258.6	1277.5	1302.0	1311.4
20°	1222.8	1232.3	1256.8	1283.1	1294.4
22.5°	1194.6	1202.1	1230.4	1260.5	1273.7
25°	1160.7	1170.1	1204.0	1236.0	1247.3
27.5°	1123.0	1136.2	1172.0	1205.9	1217.2
30°	1085.3	1096.6	1134.3	1172.0	1185.2
32.5°	1043.8	1055.1	1096.6	1134.3	1149.4
35°	1000.5	1015.6	1053.3	1092.8	1106.0
37.5°	953.4	970.4	1009.9	1043.8	1060.8
40°	906.3	921.4	960.9	996.7	1009.9
42.5°	859.2	872.4	910.1	947.7	959.1
45°	810.2	821.5	857.3	893.1	904.4
47.5°	757.4	770.6	804.5	834.7	847.9
50°	704.7	717.9	749.9	778.2	789.5
52.5°	653.8	661.4	691.5	717.9	731.1
55°	597.3	606.7	631.2	657.6	665.1
57.5°	542.6	548.3	572.8	595.4	606.7
60°	486.1	489.9	512.5	529.5	542.6
62.5°	433.4	433.4	450.3	469.2	476.7
65°	375.0	375.0	391.9	408.9	414.5
67.5°	318.4	322.2	333.5	346.7	350.5
70°	265.7	265.7	277.0	286.4	288.3
72.5°	218.6	216.7	222.3	229.9	233.6
75°	171.5	167.7	175.2	179.0	182.8
77.5°	130.0	128.1	131.9	135.7	135.7
80°	92.3	90.4	94.2	94.2	96.1
82.5°	60.3	62.2	62.2	60.3	58.4
85°	33.9	33.9	32.0	30.1	30.1
87.5°	11.3	11.3	11.3	13.2	13.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)