

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: P298293

Luminaire Tested: **D3X-WG-40L92765-LD5-UNV-22-T1-W2A-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P298293
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-40L92765-LD5-UNV-22-T1-W2A-5500K
Description: D3X LED 2x2 TUNABLE WHITE TROFFER
WITH RECTANGULAR PERF LENS
Light Source: (252) 90 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3526.0 lumens
Efficiency: N/A
Efficacy: 106.8 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

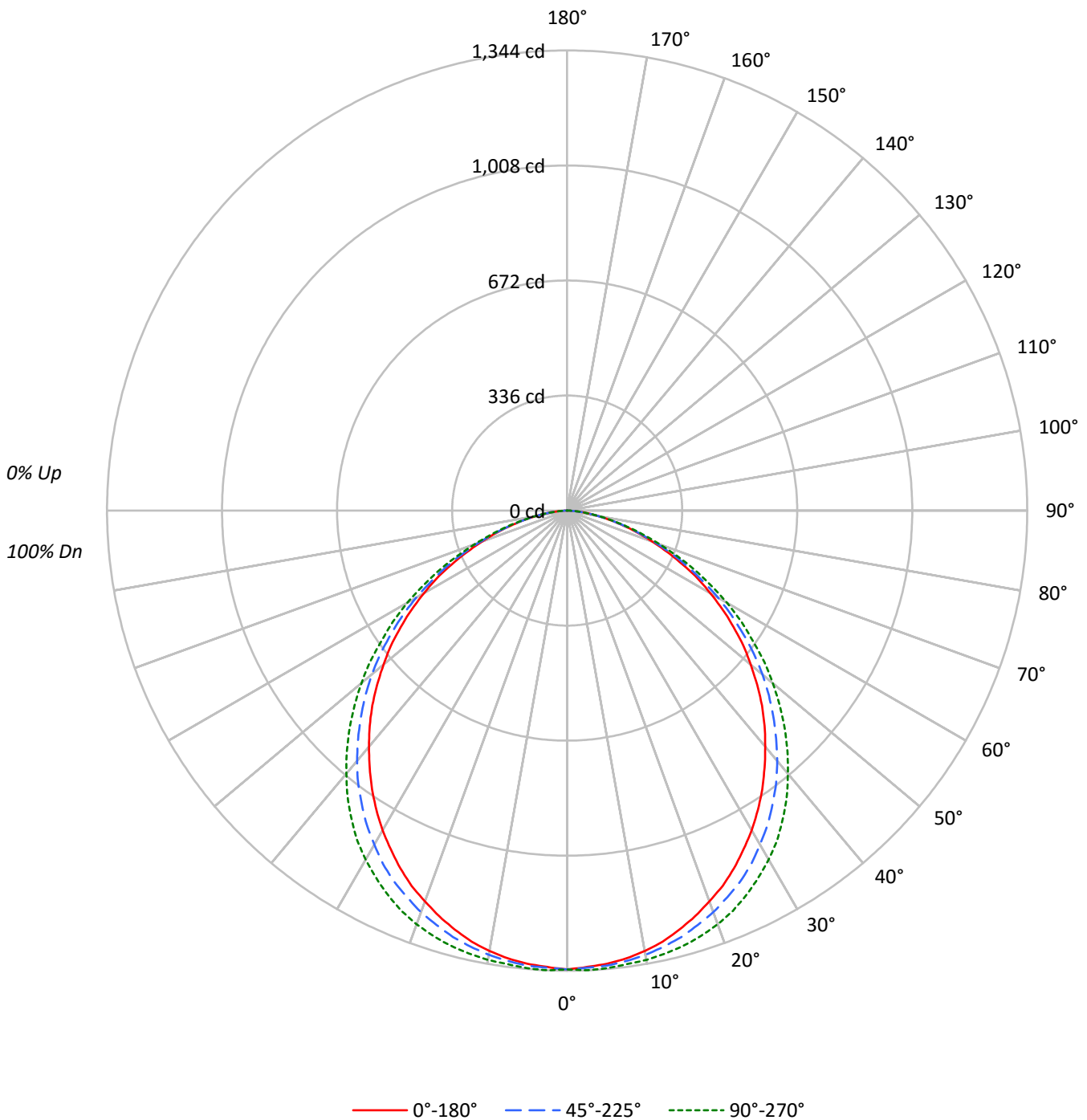
Input Watts (W): 33
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85					85			
2	100	92	86	80	97	90	84	79	87	82	77	83	79	76	80	77	74	72					72			
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	61					61			
4	84	72	64	57	82	71	63	57	68	61	56	66	60	55	64	59	54	52					52			
5	77	65	56	49	75	64	55	49	61	54	49	59	53	48	58	52	48	45					45			
6	71	58	50	43	69	57	49	43	56	48	43	54	47	42	52	47	42	40					40			
7	66	53	44	38	64	52	44	38	51	43	38	49	43	38	48	42	37	35					35			
8	62	48	40	34	60	48	40	34	46	39	34	45	39	34	44	38	34	32					32			
9	58	44	36	31	56	44	36	31	43	36	31	42	35	30	41	35	30	28					28			
10	54	41	33	28	53	40	33	28	40	33	28	39	32	28	38	32	28	26					26			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3606	3606	3606
5°	3589	3604	3625
10°	3569	3600	3641
15°	3530	3592	3665
20°	3478	3575	3682
25°	3423	3551	3679
30°	3350	3501	3658
35°	3264	3437	3609
40°	3162	3353	3524
45°	3062	3240	3419
50°	2930	3118	3283
55°	2784	2941	3099
60°	2598	2739	2901
65°	2371	2479	2621
70°	2076	2164	2253
75°	1771	1809	1887
80°	1421	1450	1478
85°	1041	982	923



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.8	3.6
10°-20°	364.0	10.3
20°-30°	550.3	15.6
30°-40°	653.7	18.5
40°-50°	656.2	18.6
50°-60°	560.5	15.9
60°-70°	386.2	11.0
70°-80°	187.2	5.3
80°-90°	41.0	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°	1041.2	29.5
0°-40°	1694.8	48.1
0°-60°	2911.6	82.6
0°-90°	3526.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3526.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1340	1340	1340	1340	1340	
5°	1329	1329	1334	1338	1342	126
15°	1267	1273	1289	1306	1316	357
25°	1153	1162	1196	1228	1239	531
35°	994	1009	1046	1085	1098	621
45°	805	816	852	887	898	619
55°	593	603	627	653	661	530
65°	372	372	389	406	412	369
75°	170	167	174	178	182	183
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°	1340.0	1340.0	1340.0	1340.0	1340.0
2.5°	1334.3	1334.3	1336.2	1341.8	1343.7
5°	1328.7	1328.7	1334.3	1338.1	1341.8
7.5°	1319.4	1321.2	1326.9	1334.3	1336.2
10°	1306.3	1308.1	1317.5	1326.9	1332.5
12.5°	1289.4	1293.2	1304.4	1319.4	1325.0
15°	1267.0	1272.6	1289.4	1306.3	1315.6
17.5°	1242.6	1250.1	1268.8	1293.2	1302.5
20°	1214.6	1223.9	1248.3	1274.5	1285.7
22.5°	1186.5	1194.0	1222.1	1252.0	1265.1
25°	1152.8	1162.2	1195.9	1227.7	1238.9
27.5°	1115.4	1128.5	1164.0	1197.7	1209.0
30°	1078.0	1089.2	1126.6	1164.0	1177.1
32.5°	1036.8	1048.0	1089.2	1126.6	1141.6
35°	993.7	1008.7	1046.1	1085.4	1098.5
37.5°	947.0	963.8	1003.1	1036.8	1053.6
40°	900.2	915.1	954.4	990.0	1003.1
42.5°	853.4	866.5	903.9	941.3	952.6
45°	804.7	816.0	851.5	887.1	898.3
47.5°	752.3	765.4	799.1	829.1	842.2
50°	699.9	713.0	744.8	772.9	784.1
52.5°	649.4	656.9	686.8	713.0	726.1
55°	593.3	602.6	626.9	653.1	660.6
57.5°	539.0	544.6	568.9	591.4	602.6
60°	482.8	486.6	509.0	525.9	539.0
62.5°	430.4	430.4	447.3	466.0	473.5
65°	372.4	372.4	389.3	406.1	411.7
67.5°	316.3	320.0	331.2	344.3	348.1
70°	263.9	263.9	275.1	284.5	286.3
72.5°	217.1	215.2	220.8	228.3	232.1
75°	170.3	166.6	174.0	177.8	181.5
77.5°	129.1	127.3	131.0	134.7	134.7
80°	91.7	89.8	93.6	93.6	95.4
82.5°	59.9	61.8	61.8	59.9	58.0
85°	33.7	33.7	31.8	29.9	29.9
87.5°	11.2	11.2	11.2	13.1	13.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)