

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: P297750

Luminaire Tested: **D3X-WG-40L82765-LD5-UNV-14-T1-W2A-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297750
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-3)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WG-40L82765-LD5-UNV-14-T1-W2A-2700K
Description: D3X LED 1x4 TUNABLE WHITE TROFFER
WITH RECTANGULAR PERF LENS
Light Source: (168) 80 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3529.0 lumens
Efficiency: N/A
Efficacy: 89.6 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.29 / 1.36
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

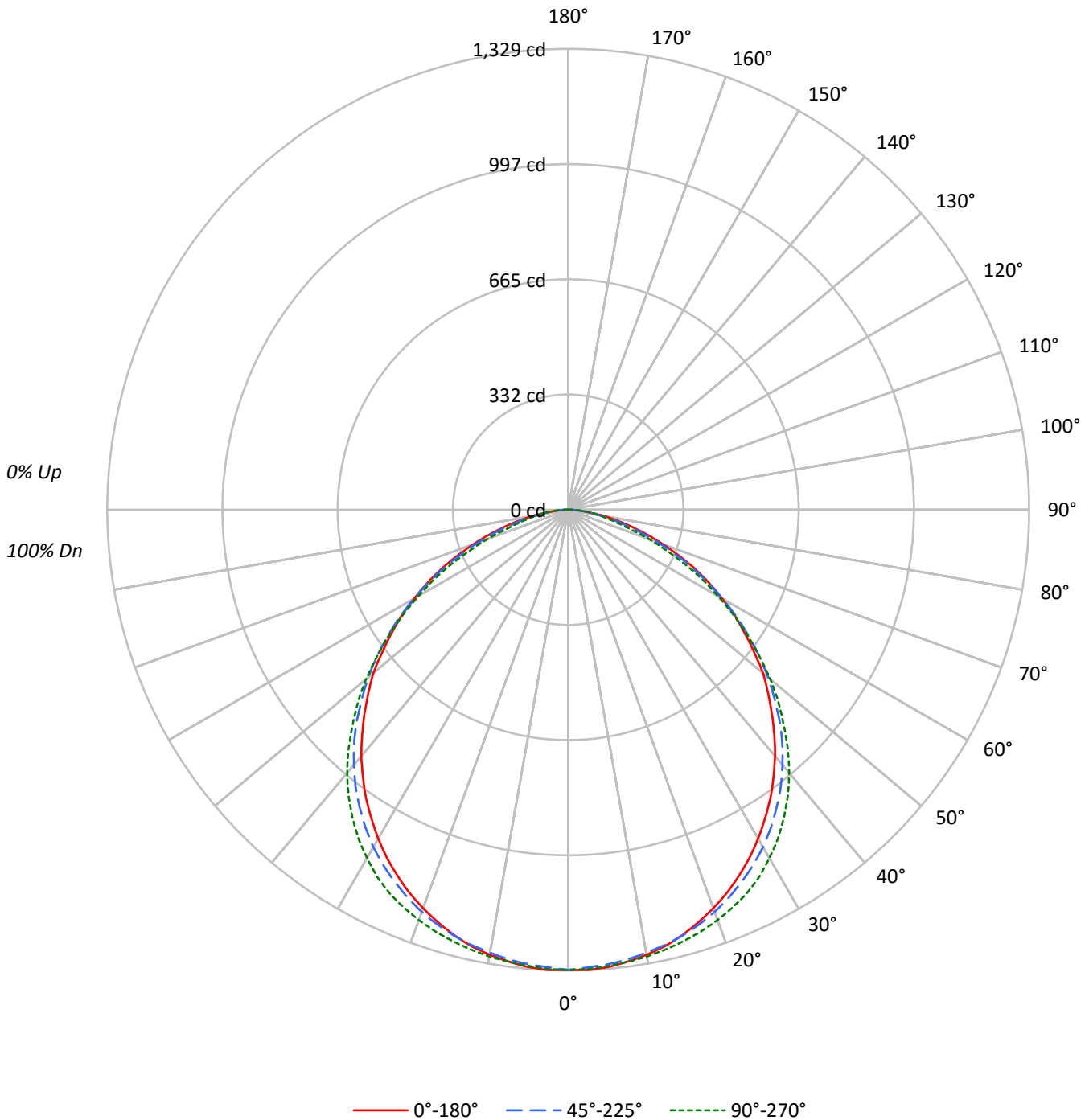
Input Watts (W): 39.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	85	80	97	90	84	79	87	82	77		83	79	75		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	81	71	63	57	68	61	56		66	60	55		64	59	54	52
5	77	65	56	49	75	63	55	49	61	54	48		59	53	48		58	52	47	45
6	71	58	49	43	69	57	49	43	55	48	43		54	47	42		52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38		49	42	37		48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34		45	38	34		44	38	33	31
9	58	44	36	31	56	44	36	31	43	35	30		41	35	30		40	35	30	28
10	54	41	33	28	53	40	33	28	39	32	28		38	32	28		38	32	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3571	3571	3571
5°	3576	3555	3568
10°	3562	3545	3575
15°	3539	3544	3587
20°	3502	3534	3606
25°	3458	3514	3622
30°	3403	3491	3604
35°	3339	3442	3562
40°	3260	3376	3482
45°	3159	3279	3345
50°	3072	3152	3184
55°	2917	2976	2961
60°	2760	2760	2684
65°	2562	2502	2362
70°	2272	2173	1961
75°	1969	1788	1510
80°	1615	1395	1370
85°	1071	1266	1365



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.5	3.6
10°-20°	360.2	10.2
20°-30°	547.4	15.5
30°-40°	655.5	18.6
40°-50°	661.1	18.7
50°-60°	563.1	16.0
60°-70°	385.1	10.9
70°-80°	184.4	5.2
80°-90°	46.7	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°	1033.1	29.3
0°-40°	1688.6	47.8
0°-60°	2912.9	82.5
0°-90°	3529.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3529.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1327	1327	1327	1327	1327	
5°	1324	1322	1316	1322	1321	126
15°	1270	1267	1272	1286	1288	358
25°	1165	1166	1184	1210	1220	537
35°	1016	1020	1048	1078	1084	635
45°	830	836	862	879	879	641
55°	622	625	634	636	631	557
65°	402	394	393	379	371	397
75°	189	186	172	150	145	202
85°	35	38	41	43	44	45
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1327.2	1327.2	1327.2	1327.2	1327.2
2.5°	1328.8	1327.2	1320.9	1327.2	1325.6
5°	1324.0	1322.5	1316.1	1322.5	1320.9
7.5°	1314.6	1313.0	1308.3	1314.6	1314.6
10°	1303.5	1300.4	1297.2	1306.7	1308.3
12.5°	1289.3	1286.2	1286.2	1297.2	1298.8
15°	1270.4	1267.2	1272.0	1286.2	1287.7
17.5°	1248.3	1246.7	1254.6	1272.0	1275.1
20°	1223.0	1221.5	1234.1	1254.6	1259.3
22.5°	1196.2	1196.2	1210.4	1234.1	1240.4
25°	1164.6	1166.2	1183.6	1210.4	1219.9
27.5°	1131.5	1134.7	1155.2	1185.2	1193.1
30°	1095.2	1099.9	1123.6	1152.0	1159.9
32.5°	1055.8	1060.5	1087.3	1117.3	1125.2
35°	1016.3	1019.5	1047.9	1077.8	1084.2
37.5°	972.1	976.9	1006.8	1033.7	1040.0
40°	927.9	932.7	961.1	986.3	991.1
42.5°	879.0	885.3	913.7	934.2	937.4
45°	830.1	836.4	861.6	879.0	879.0
47.5°	781.2	784.3	806.4	823.8	822.2
50°	733.8	732.2	752.8	760.6	760.6
52.5°	675.4	680.2	694.4	699.1	694.4
55°	621.8	624.9	634.4	636.0	631.2
57.5°	569.7	568.1	576.0	571.3	565.0
60°	512.9	512.9	512.9	508.2	498.7
62.5°	457.7	454.5	452.9	441.9	437.1
65°	402.4	394.5	392.9	378.7	370.9
67.5°	344.0	340.9	333.0	318.8	304.6
70°	288.8	285.6	276.2	258.8	249.3
72.5°	238.3	235.1	222.5	202.0	189.4
75°	189.4	186.2	172.0	149.9	145.2
77.5°	143.6	142.0	127.8	116.8	115.2
80°	104.2	102.6	90.0	90.0	88.4
82.5°	66.3	66.3	63.1	64.7	66.3
85°	34.7	37.9	41.0	42.6	44.2
87.5°	11.0	17.4	20.5	22.1	20.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)