

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: P297684

Luminaire Tested: **D3X-WD-40L92765-LD5-UNV-14-T1-W2A-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297684
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-2)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WD-40L92765-LD5-UNV-14-T1-W2A-4500K
Description: D3X LED 1x4 TUNABLE WHITE TROFFER
WITH ROUND PERF LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3490.0 lumens
Efficiency: N/A
Efficacy: 86.8 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.34 / 1.39
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

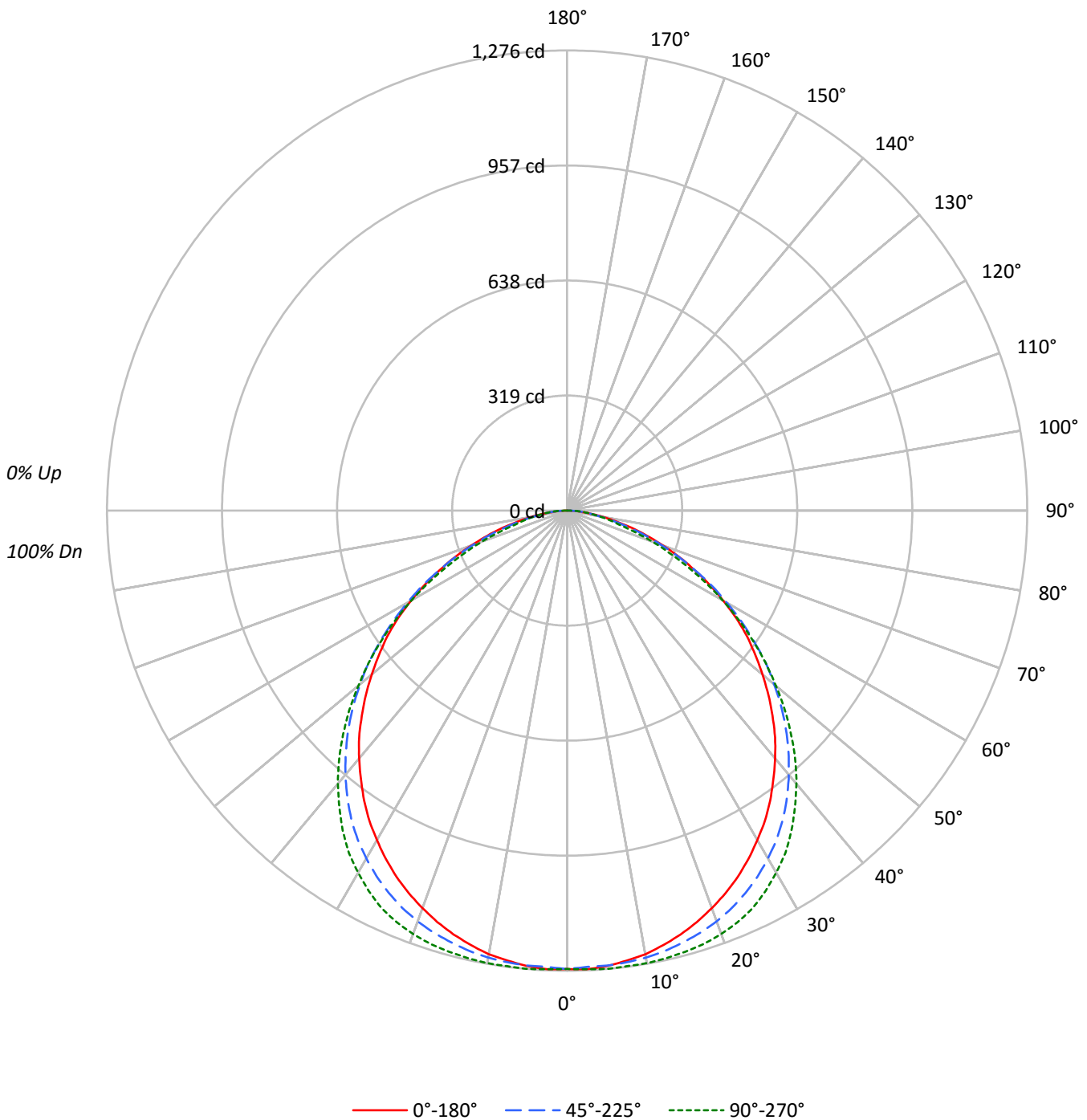
Input Watts (W): 40.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	92	94	92	90	91	89	87	85					85			
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	71					71			
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61					61			
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52					52			
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45					45			
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	40					40			
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35					35			
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31					31			
9	57	44	36	31	56	44	36	30	42	35	30	41	35	30	40	34	30	28					28			
10	54	41	33	28	53	40	33	28	39	32	27	38	32	27	37	31	27	25					25			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3421	3421	3421
5°	3425	3421	3447
10°	3414	3440	3482
15°	3390	3455	3528
20°	3359	3471	3578
25°	3326	3474	3613
30°	3277	3461	3602
35°	3224	3429	3562
40°	3152	3360	3475
45°	3065	3267	3344
50°	2961	3137	3163
55°	2858	2967	2953
60°	2692	2750	2683
65°	2480	2490	2351
70°	2219	2169	1973
75°	1928	1798	1522
80°	1545	1401	1401
85°	1105	1300	1346



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.9	3.5
10°-20°	350.9	10.1
20°-30°	538.8	15.4
30°-40°	648.9	18.6
40°-50°	655.8	18.8
50°-60°	559.3	16.0
60°-70°	382.9	11.0
70°-80°	184.8	5.3
80°-90°	47.6	1.4
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°	1010.6	29.0
0°-40°	1659.6	47.6
0°-60°	2874.7	82.4
0°-90°	3490.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3490.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1271	1271	1271	1271	1271	
5°	1268	1268	1266	1274	1276	120
15°	1217	1226	1240	1262	1266	343
25°	1120	1137	1170	1204	1217	516
35°	982	1003	1044	1076	1084	613
45°	805	827	858	879	879	621
55°	609	620	632	636	629	542
65°	390	394	391	377	369	386
75°	185	185	173	153	146	197
85°	36	39	42	44	44	44
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1271.2	1271.2	1271.2	1271.2	1271.2
2.5°	1272.8	1271.2	1266.5	1272.8	1272.8
5°	1268.1	1268.1	1266.5	1274.3	1275.9
7.5°	1258.8	1261.9	1263.4	1272.8	1274.3
10°	1249.4	1252.5	1258.8	1271.2	1274.3
12.5°	1233.8	1240.1	1251.0	1268.1	1271.2
15°	1216.7	1226.0	1240.1	1261.9	1266.5
17.5°	1196.4	1208.9	1227.6	1252.5	1260.3
20°	1173.1	1187.1	1212.0	1240.1	1249.4
22.5°	1148.1	1163.7	1193.3	1226.0	1235.4
25°	1120.1	1137.2	1170.0	1204.2	1216.7
27.5°	1088.9	1107.6	1143.5	1179.3	1190.2
30°	1054.7	1074.9	1113.9	1149.7	1159.1
32.5°	1020.4	1040.7	1081.2	1115.4	1126.3
35°	981.5	1003.3	1043.8	1076.5	1084.3
37.5°	939.4	961.2	1001.7	1034.4	1037.5
40°	897.3	919.1	956.5	986.1	989.2
42.5°	853.7	874.0	908.2	933.2	936.3
45°	805.4	827.2	858.4	878.6	878.6
47.5°	757.1	778.9	805.4	819.4	819.4
50°	707.3	727.5	749.3	757.1	755.6
52.5°	657.4	676.1	694.8	696.4	693.3
55°	609.1	620.0	632.5	635.6	629.4
57.5°	556.2	565.5	573.3	568.6	563.9
60°	500.1	509.4	511.0	503.2	498.5
62.5°	445.6	453.3	453.3	440.9	433.1
65°	389.5	394.1	391.0	377.0	369.2
67.5°	336.5	339.6	333.4	319.4	306.9
70°	282.0	283.5	275.7	258.6	250.8
72.5°	232.1	233.7	224.3	204.1	194.7
75°	185.4	185.4	172.9	152.7	146.4
77.5°	138.7	143.3	129.3	118.4	118.4
80°	99.7	104.4	90.4	91.9	90.4
82.5°	65.4	70.1	65.4	65.4	65.4
85°	35.8	38.9	42.1	43.6	43.6
87.5°	10.9	18.7	20.3	21.8	24.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)