

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: P297754

Luminaire Tested: **D3X-WG-40L82765-LD5-UNV-14-T1-W2A-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297754
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-4500K
Description: D3X LED 1x4 TUNABLE WHITE TROFFER
WITH RECTANGULAR PERF LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3906.0 lumens
Efficiency: N/A
Efficacy: 97.2 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

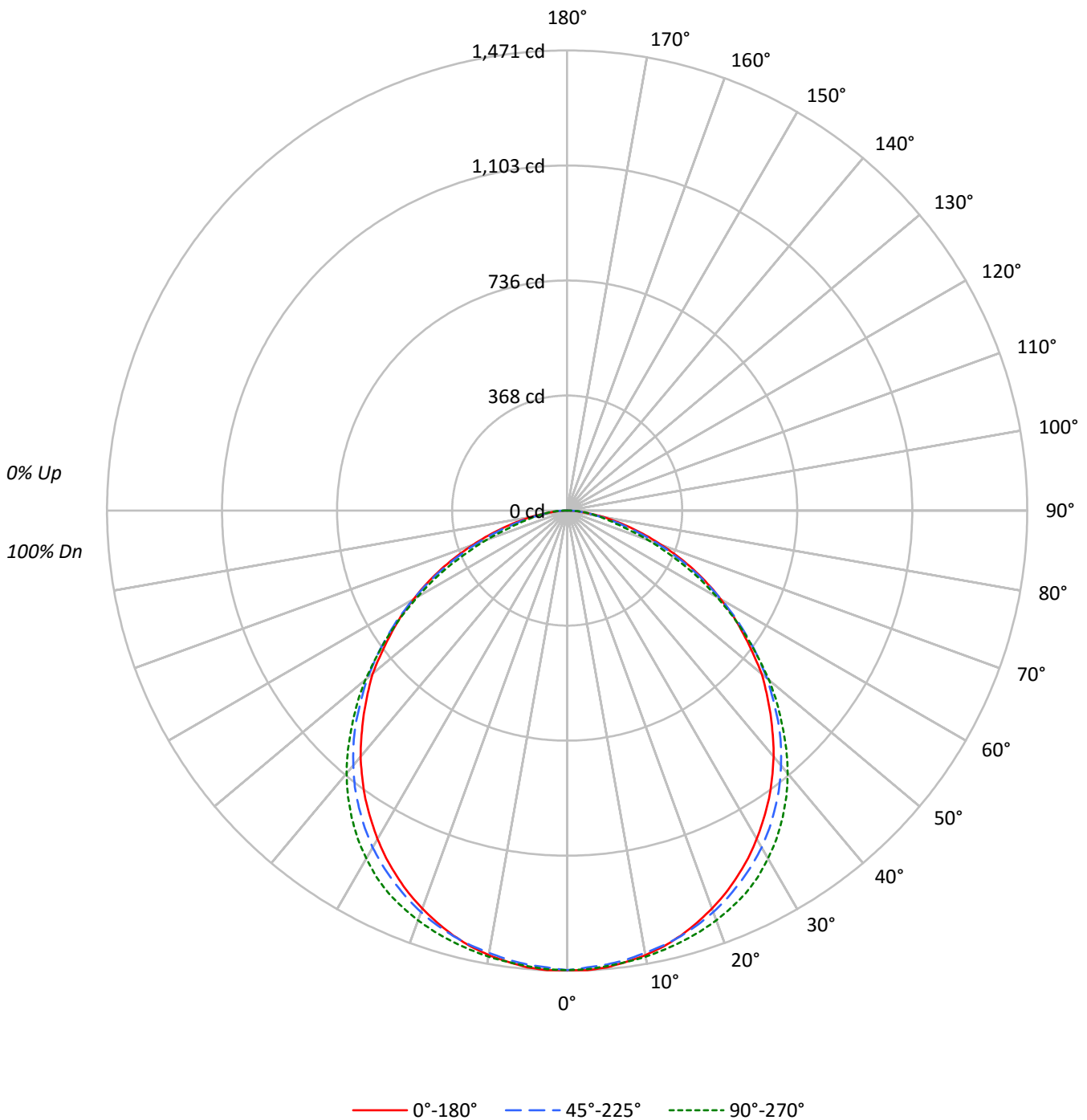
Input Watts (W): 40.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	3953	3953	3953
5°	3959	3935	3949
10°	3942	3923	3957
15°	3917	3922	3971
20°	3877	3912	3992
25°	3828	3890	4009
30°	3767	3864	3989
35°	3695	3810	3942
40°	3608	3737	3853
45°	3497	3629	3702
50°	3400	3488	3525
55°	3229	3294	3278
60°	3055	3055	2971
65°	2836	2769	2614
70°	2515	2405	2172
75°	2179	1980	1671
80°	1787	1543	1516
85°	1186	1402	1510



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.9	3.6
10°-20°	398.7	10.2
20°-30°	605.9	15.5
30°-40°	725.5	18.6
40°-50°	731.8	18.7
50°-60°	623.3	16.0
60°-70°	426.2	10.9
70°-80°	204.1	5.2
80°-90°	51.7	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°	1143.5	29.3
0°-40°	1869.0	47.8
0°-60°	3224.0	82.5
0°-90°	3906.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3906.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1469	1469	1469	1469	1469	
5°	1466	1464	1457	1464	1462	139
15°	1406	1403	1408	1424	1425	396
25°	1289	1291	1310	1340	1350	594
35°	1125	1128	1160	1193	1200	703
45°	919	926	954	973	973	709
55°	688	692	702	704	699	616
65°	445	437	435	419	410	439
75°	210	206	190	166	161	224
85°	38	42	45	47	49	49
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1469.0	1469.0	1469.0	1469.0	1469.0
2.5°	1470.7	1469.0	1462.0	1469.0	1467.2
5°	1465.5	1463.7	1456.7	1463.7	1462.0
7.5°	1455.0	1453.3	1448.0	1455.0	1455.0
10°	1442.8	1439.3	1435.8	1446.3	1448.0
12.5°	1427.1	1423.6	1423.6	1435.8	1437.5
15°	1406.1	1402.6	1407.8	1423.6	1425.3
17.5°	1381.6	1379.9	1388.6	1407.8	1411.3
20°	1353.7	1351.9	1365.9	1388.6	1393.9
22.5°	1324.0	1324.0	1339.7	1365.9	1372.9
25°	1289.1	1290.8	1310.0	1339.7	1350.2
27.5°	1252.4	1255.9	1278.6	1311.8	1320.5
30°	1212.2	1217.4	1243.6	1275.1	1283.8
32.5°	1168.5	1173.8	1203.5	1236.7	1245.4
35°	1124.9	1128.4	1159.8	1193.0	1200.0
37.5°	1076.0	1081.2	1114.4	1144.1	1151.1
40°	1027.1	1032.3	1063.7	1091.7	1096.9
42.5°	972.9	979.9	1011.3	1034.0	1037.5
45°	918.8	925.8	953.7	972.9	972.9
47.5°	864.6	868.1	892.6	911.8	910.0
50°	812.2	810.5	833.2	841.9	841.9
52.5°	747.6	752.8	768.5	773.8	768.5
55°	688.2	691.7	702.2	703.9	698.7
57.5°	630.6	628.8	637.5	632.3	625.3
60°	567.7	567.7	567.7	562.4	552.0
62.5°	506.5	503.0	501.3	489.1	483.8
65°	445.4	436.7	434.9	419.2	410.5
67.5°	380.8	377.3	368.6	352.8	337.1
70°	319.6	316.2	305.7	286.5	276.0
72.5°	263.8	260.3	246.3	223.6	209.6
75°	209.6	206.1	190.4	165.9	160.7
77.5°	158.9	157.2	141.5	129.3	127.5
80°	115.3	113.5	99.6	99.6	97.8
82.5°	73.4	73.4	69.9	71.6	73.4
85°	38.4	41.9	45.4	47.2	48.9
87.5°	12.2	19.2	22.7	24.5	22.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)