

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: P297753

Luminaire Tested: **D3X-WG-40L82765-LD5-UNV-14-T1-W2A-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297753
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-4000K
Description: D3X LED 1x4 TUNABLE WHITE TROFFER
WITH RECTANGULAR PERF LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3839.0 lumens
Efficiency: N/A
Efficacy: 96.2 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

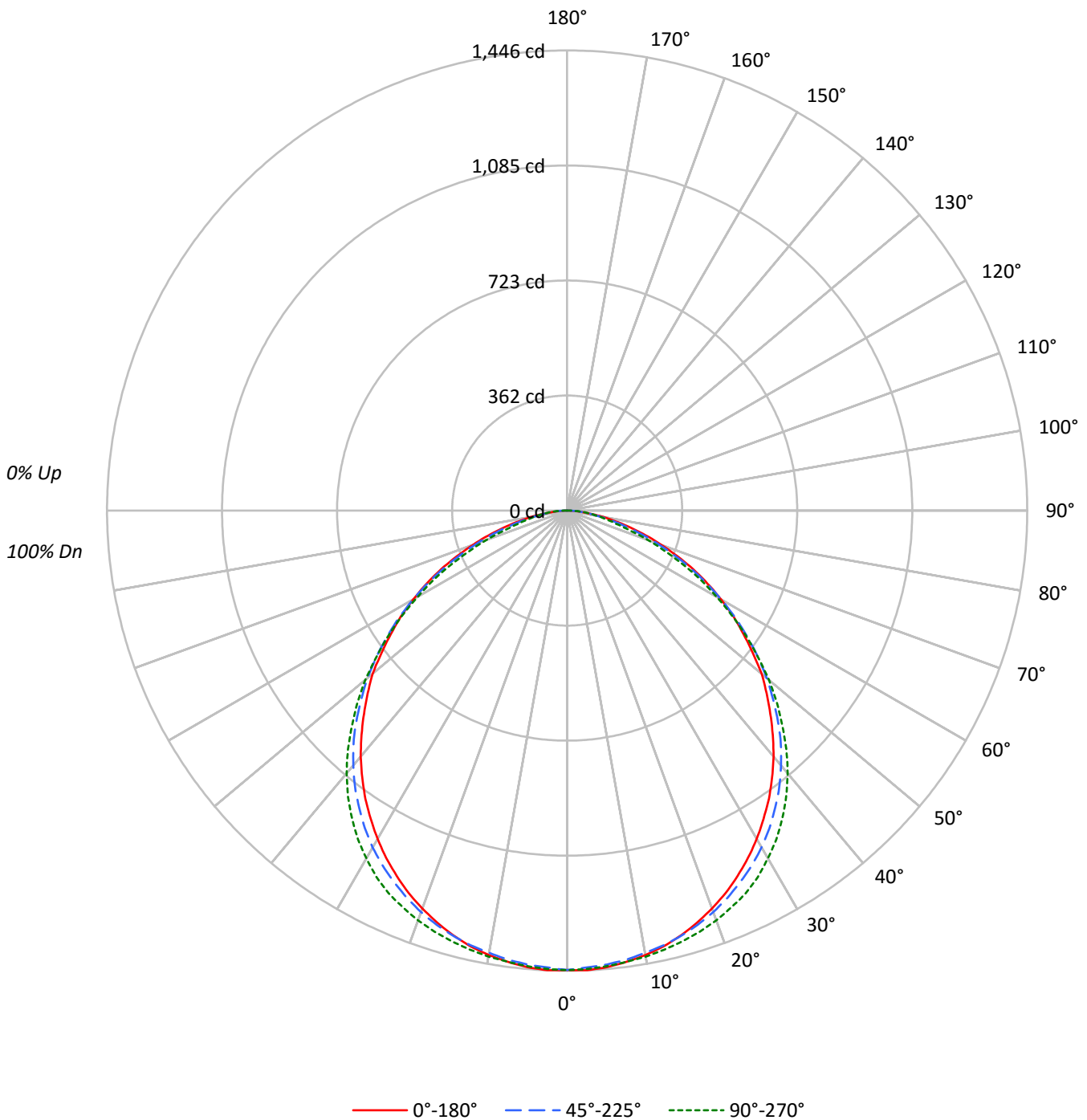
Input Watts (W): 39.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3885	3885	3885
5°	3891	3868	3881
10°	3875	3856	3889
15°	3850	3855	3903
20°	3810	3844	3923
25°	3762	3823	3940
30°	3702	3798	3921
35°	3632	3745	3874
40°	3546	3673	3787
45°	3436	3567	3639
50°	3342	3428	3464
55°	3173	3238	3222
60°	3003	3003	2920
65°	2788	2722	2569
70°	2472	2364	2134
75°	2142	1945	1642
80°	1756	1517	1489
85°	1167	1377	1485



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.5	3.6
10°-20°	391.8	10.2
20°-30°	595.5	15.5
30°-40°	713.0	18.6
40°-50°	719.2	18.7
50°-60°	612.6	16.0
60°-70°	418.9	10.9
70°-80°	200.6	5.2
80°-90°	50.8	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°	1123.9	29.3
0°-40°	1836.9	47.8
0°-60°	3168.7	82.5
0°-90°	3839.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3839.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1444	1444	1444	1444	1444	
5°	1440	1439	1432	1439	1437	137
15°	1382	1378	1384	1399	1401	390
25°	1267	1269	1288	1317	1327	584
35°	1106	1109	1140	1172	1179	691
45°	903	910	937	956	956	697
55°	676	680	690	692	687	606
65°	438	429	428	412	403	432
75°	206	203	187	163	158	220
85°	38	41	45	46	48	49
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1443.8	1443.8	1443.8	1443.8	1443.8
2.5°	1445.5	1443.8	1436.9	1443.8	1442.1
5°	1440.3	1438.6	1431.8	1438.6	1436.9
7.5°	1430.0	1428.3	1423.2	1430.0	1430.0
10°	1418.0	1414.6	1411.2	1421.5	1423.2
12.5°	1402.6	1399.1	1399.1	1411.2	1412.9
15°	1382.0	1378.5	1383.7	1399.1	1400.9
17.5°	1357.9	1356.2	1364.8	1383.7	1387.1
20°	1330.5	1328.8	1342.5	1364.8	1370.0
22.5°	1301.3	1301.3	1316.7	1342.5	1349.4
25°	1267.0	1268.7	1287.6	1316.7	1327.0
27.5°	1230.9	1234.3	1256.7	1289.3	1297.9
30°	1191.4	1196.6	1222.3	1253.2	1261.8
32.5°	1148.5	1153.6	1182.8	1215.5	1224.0
35°	1105.6	1109.0	1139.9	1172.5	1179.4
37.5°	1057.5	1062.7	1095.3	1124.5	1131.3
40°	1009.4	1014.6	1045.5	1073.0	1078.1
42.5°	956.2	963.1	994.0	1016.3	1019.7
45°	903.0	909.9	937.3	956.2	956.2
47.5°	849.8	853.2	877.3	896.1	894.4
50°	798.3	796.6	818.9	827.5	827.5
52.5°	734.8	739.9	755.4	760.5	755.4
55°	676.4	679.8	690.1	691.8	686.7
57.5°	619.7	618.0	626.6	621.5	614.6
60°	557.9	557.9	557.9	552.8	542.5
62.5°	497.9	494.4	492.7	480.7	475.5
65°	437.8	429.2	427.5	412.0	403.4
67.5°	374.2	370.8	362.2	346.8	331.3
70°	314.2	310.7	300.4	281.5	271.2
72.5°	259.2	255.8	242.1	219.7	206.0
75°	206.0	202.6	187.1	163.1	157.9
77.5°	156.2	154.5	139.1	127.0	125.3
80°	113.3	111.6	97.9	97.9	96.1
82.5°	72.1	72.1	68.7	70.4	72.1
85°	37.8	41.2	44.6	46.4	48.1
87.5°	12.0	18.9	22.3	24.0	22.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)