

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: P298372

Luminaire Tested: **D3X-WO-40L82765-LD5-UNV-22-T1-W2A-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P298372
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-4)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WO-40L82765-LD5-UNV-22-T1-W2A-3000K
Description: D3X LED 2x2 TUNABLE WHITE TROFFER
WITH OPAL LENS
Light Source: (252) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3780.0 lumens
Efficiency: N/A
Efficacy: 118.5 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.27 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

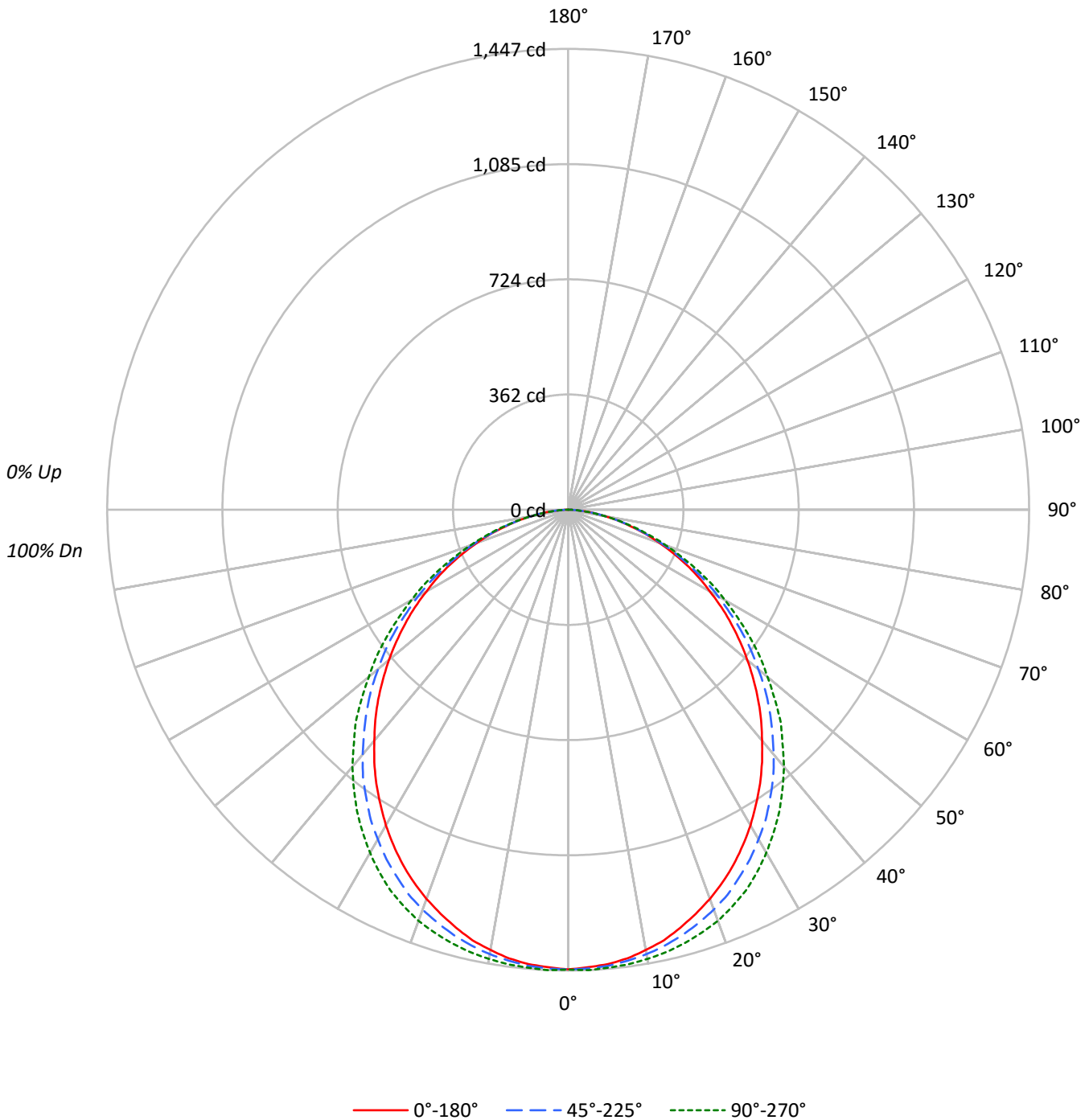
Input Watts (W): 31.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	102	99	95	98	95	92	94	92	89	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	76	73	71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	66	63	60
4	84	72	63	57	81	70	62	56	68	61	56	66	60	55	64	58	54	52
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42	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	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31
9	57	44	36	31	56	44	36	31	43	35	30	41	35	30	40	34	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°	3884	3884	3884
5°	3869	3884	3899
10°	3836	3872	3914
15°	3786	3854	3927
20°	3724	3827	3934
25°	3649	3778	3917
30°	3556	3714	3865
35°	3450	3629	3796
40°	3326	3524	3703
45°	3209	3402	3588
50°	3073	3262	3419
55°	2931	3108	3258
60°	2765	2927	3059
65°	2613	2708	2840
70°	2399	2473	2562
75°	2132	2192	2250
80°	1838	1808	1808
85°	1396	1278	1161



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.6	3.6
10°-20°	390.3	10.3
20°-30°	586.0	15.5
30°-40°	689.7	18.2
40°-50°	687.9	18.2
50°-60°	590.4	15.6
60°-70°	422.8	11.2
70°-80°	223.9	5.9
80°-90°	52.4	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°	1112.9	29.4
0°-40°	1802.6	47.7
0°-60°	3080.9	81.5
0°-90°	3780.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3780.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1444	1444	1444	1444	1444	
5°	1432	1432	1438	1442	1444	136
15°	1359	1364	1383	1402	1410	383
25°	1229	1240	1272	1304	1319	566
35°	1050	1063	1105	1142	1156	656
45°	843	856	894	926	943	650
55°	625	634	662	685	694	558
65°	410	412	425	442	446	405
75°	205	205	211	215	216	220
85°	45	43	41	38	38	55
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1443.5	1443.5	1443.5	1443.5	1443.5
2.5°	1437.9	1437.9	1441.7	1445.4	1447.3
5°	1432.3	1432.3	1437.9	1441.7	1443.5
7.5°	1421.0	1421.0	1428.5	1436.0	1439.8
10°	1404.0	1407.8	1417.2	1428.5	1432.3
12.5°	1385.2	1389.0	1402.1	1417.2	1422.8
15°	1358.9	1364.5	1383.3	1402.1	1409.7
17.5°	1330.6	1338.2	1360.7	1383.3	1392.7
20°	1300.5	1308.0	1336.3	1362.6	1373.9
22.5°	1266.6	1276.0	1308.0	1336.3	1347.6
25°	1229.0	1240.3	1272.3	1304.3	1319.3
27.5°	1187.6	1200.8	1236.5	1270.4	1283.6
30°	1144.3	1159.4	1195.1	1230.9	1244.0
32.5°	1097.2	1110.4	1153.7	1187.6	1200.8
35°	1050.2	1063.4	1104.8	1142.4	1155.6
37.5°	999.4	1016.3	1057.7	1091.6	1104.8
40°	946.7	963.6	1003.1	1042.7	1054.0
42.5°	895.9	910.9	948.6	984.3	995.6
45°	843.2	856.3	894.0	926.0	942.9
47.5°	788.6	801.8	839.4	869.5	878.9
50°	734.0	747.2	779.2	805.5	816.8
52.5°	679.4	692.6	722.7	747.2	758.5
55°	624.8	634.3	662.5	685.1	694.5
57.5°	570.3	577.8	600.4	624.8	630.5
60°	513.8	523.2	543.9	560.9	568.4
62.5°	463.0	466.8	485.6	500.6	510.0
65°	410.3	412.2	425.3	442.3	446.1
67.5°	355.7	357.6	370.8	380.2	383.9
70°	304.9	304.9	314.3	321.8	325.6
72.5°	256.0	254.1	259.7	267.3	271.0
75°	205.1	205.1	210.8	214.6	216.4
77.5°	161.9	158.1	161.9	165.6	165.6
80°	118.6	116.7	116.7	118.6	116.7
82.5°	80.9	79.0	80.9	77.2	75.3
85°	45.2	43.3	41.4	37.6	37.6
87.5°	15.1	13.2	13.2	15.1	15.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)