

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: P298327

Luminaire Tested: **D3X-WO-40L83050-LD5-UNV-22-T1-W2A-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P298327
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-40L83050-LD5-UNV-22-T1-W2A-4000K
Description: D3X LED 2x2 TUNABLE WHITE TROFFER
WITH OPAL LENS
Light Source: (252) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4204.0 lumens
Efficiency: N/A
Efficacy: 128.2 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

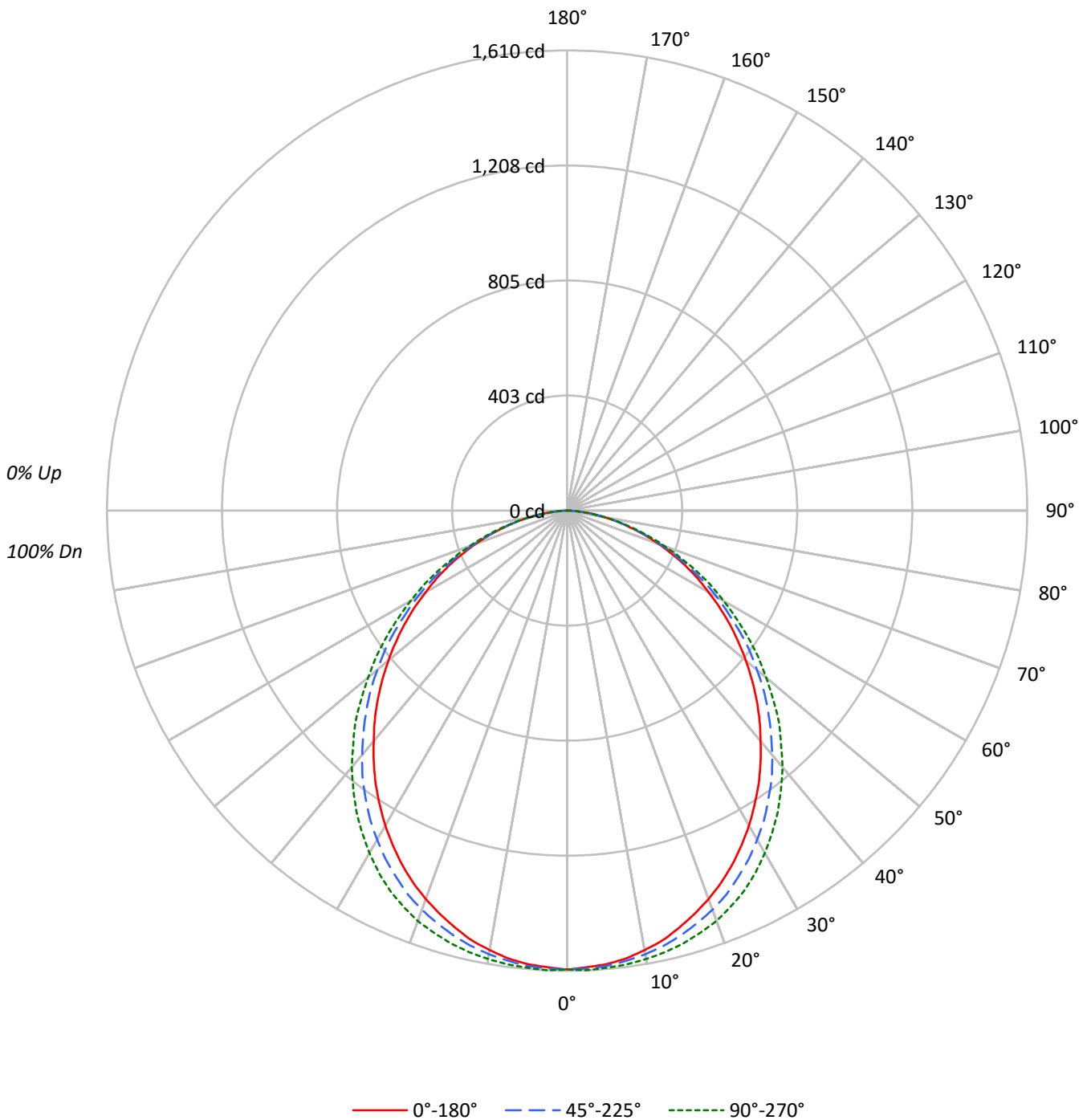
Input Watts (W): 32.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4320	4320	4320
5°	4303	4320	4337
10°	4267	4307	4353
15°	4210	4286	4368
20°	4142	4256	4376
25°	4058	4201	4357
30°	3955	4130	4299
35°	3837	4036	4222
40°	3699	3919	4118
45°	3569	3784	3991
50°	3417	3628	3803
55°	3260	3457	3624
60°	3075	3256	3402
65°	2905	3012	3159
70°	2668	2751	2849
75°	2373	2437	2503
80°	2044	2011	2011
85°	1550	1420	1294



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.9	3.6
10°-20°	434.1	10.3
20°-30°	651.8	15.5
30°-40°	767.1	18.2
40°-50°	765.1	18.2
50°-60°	656.6	15.6
60°-70°	470.2	11.2
70°-80°	249.0	5.9
80°-90°	58.2	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°	1237.8	29.4
0°-40°	2004.8	47.7
0°-60°	3426.5	81.5
0°-90°	4204.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4204.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1606	1606	1606	1606	1606	
5°	1593	1593	1599	1603	1606	151
15°	1511	1518	1538	1559	1568	426
25°	1367	1379	1415	1451	1467	629
35°	1168	1183	1229	1271	1285	730
45°	938	952	994	1030	1049	723
55°	695	705	737	762	772	621
65°	456	458	473	492	496	451
75°	228	228	234	239	241	245
85°	50	48	46	42	42	61
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1605.5	1605.5	1605.5	1605.5	1605.5
2.5°	1599.2	1599.2	1603.4	1607.6	1609.7
5°	1592.9	1592.9	1599.2	1603.4	1605.5
7.5°	1580.4	1580.4	1588.7	1597.1	1601.3
10°	1561.5	1565.7	1576.2	1588.7	1592.9
12.5°	1540.6	1544.8	1559.4	1576.2	1582.4
15°	1511.3	1517.6	1538.5	1559.4	1567.8
17.5°	1479.9	1488.3	1513.4	1538.5	1549.0
20°	1446.4	1454.8	1486.2	1515.5	1528.0
22.5°	1408.7	1419.2	1454.8	1486.2	1498.7
25°	1366.8	1379.4	1415.0	1450.6	1467.3
27.5°	1320.8	1335.4	1375.2	1412.9	1427.5
30°	1272.7	1289.4	1329.2	1368.9	1383.6
32.5°	1220.3	1235.0	1283.1	1320.8	1335.4
35°	1168.0	1182.6	1228.7	1270.6	1285.2
37.5°	1111.5	1130.3	1176.4	1214.0	1228.7
40°	1052.9	1071.7	1115.7	1159.6	1172.2
42.5°	996.4	1013.1	1055.0	1094.7	1107.3
45°	937.7	952.4	994.3	1029.8	1048.7
47.5°	877.0	891.7	933.6	967.0	977.5
50°	816.3	831.0	866.6	895.9	908.4
52.5°	755.6	770.3	803.8	831.0	843.6
55°	694.9	705.4	736.8	761.9	772.4
57.5°	634.2	642.6	667.7	694.9	701.2
60°	571.4	581.9	604.9	623.8	632.1
62.5°	514.9	519.1	540.0	556.8	567.3
65°	456.3	458.4	473.1	491.9	496.1
67.5°	395.6	397.7	412.4	422.8	427.0
70°	339.1	339.1	349.6	357.9	362.1
72.5°	284.7	282.6	288.9	297.2	301.4
75°	228.2	228.2	234.4	238.6	240.7
77.5°	180.0	175.8	180.0	184.2	184.2
80°	131.9	129.8	129.8	131.9	129.8
82.5°	90.0	87.9	90.0	85.8	83.7
85°	50.2	48.1	46.0	41.9	41.9
87.5°	16.7	14.7	14.7	16.7	16.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)