

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: P298325

Luminaire Tested: **D3X-WO-40L83050-LD5-UNV-22-T1-W2A-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P298325
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-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: 3784.0 lumens
Efficiency: N/A
Efficacy: 118.2 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

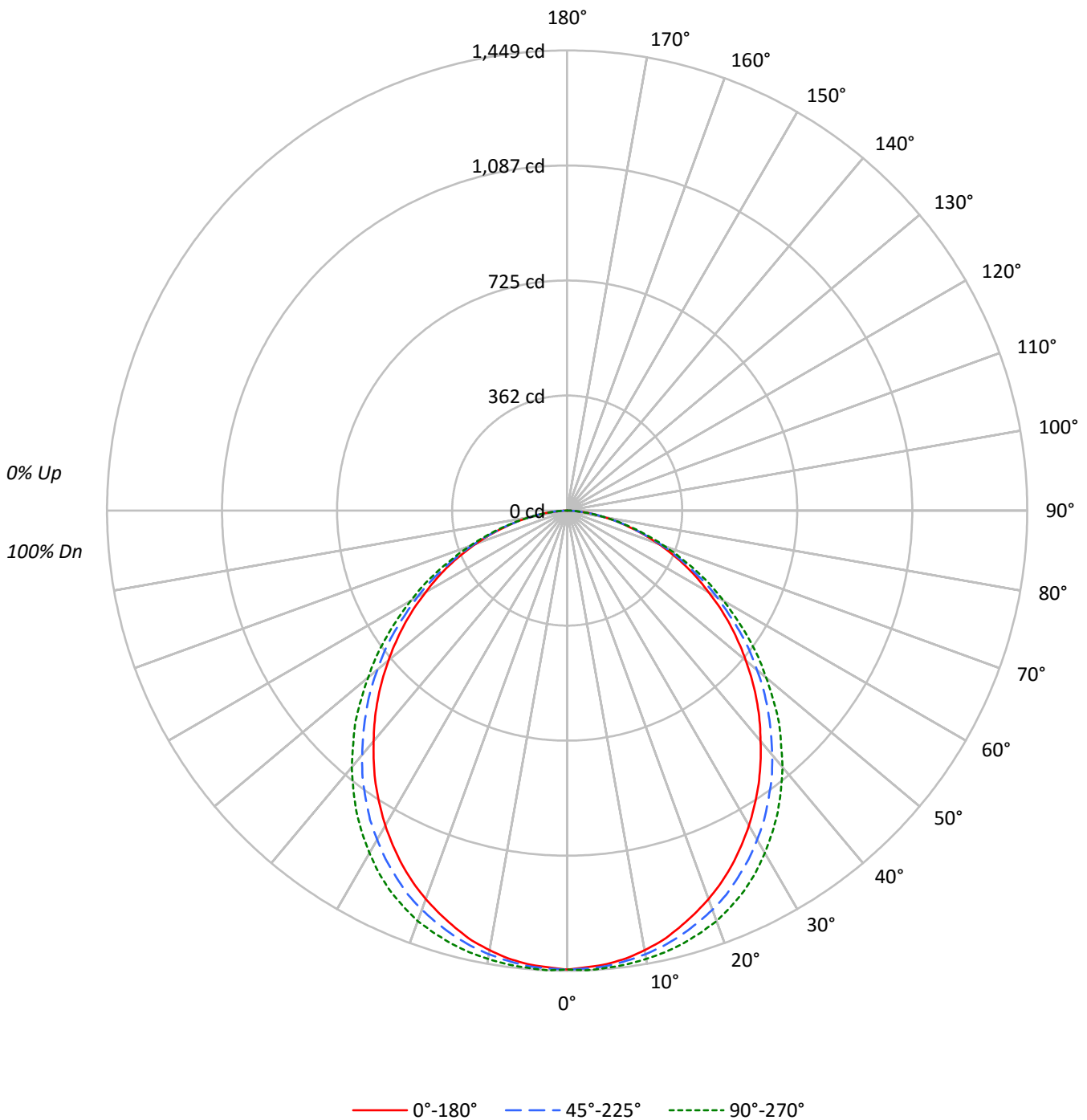
Input Watts (W): 32
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	102	99	95	98	95	92	94	92	89	91	89	87	85					85			
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	76	73	71					71			
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	66	63	60					60			
4	84	72	63	57	81	70	62	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	31	43	35	30	41	35	30	40	34	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°	3889	3889	3889
5°	3873	3888	3904
10°	3841	3877	3918
15°	3790	3858	3931
20°	3728	3831	3939
25°	3653	3782	3921
30°	3559	3718	3870
35°	3454	3633	3800
40°	3329	3528	3706
45°	3212	3406	3592
50°	3076	3265	3423
55°	2935	3111	3262
60°	2768	2930	3062
65°	2615	2711	2843
70°	2401	2475	2564
75°	2136	2194	2253
80°	1839	1810	1810
85°	1396	1278	1164



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.7	3.6
10°-20°	390.7	10.3
20°-30°	586.6	15.5
30°-40°	690.4	18.2
40°-50°	688.7	18.2
50°-60°	591.0	15.6
60°-70°	423.3	11.2
70°-80°	224.1	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°	1114.1	29.4
0°-40°	1804.5	47.7
0°-60°	3084.2	81.5
0°-90°	3784.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3784.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1445	1445	1445	1445	1445	
5°	1434	1434	1439	1443	1445	136
15°	1360	1366	1385	1404	1411	383
25°	1230	1242	1274	1306	1321	566
35°	1051	1064	1106	1144	1157	657
45°	844	857	895	927	944	651
55°	626	635	663	686	695	559
65°	411	413	426	443	446	406
75°	205	205	211	215	217	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°	1445.1	1445.1	1445.1	1445.1	1445.1
2.5°	1439.4	1439.4	1443.2	1447.0	1448.8
5°	1433.8	1433.8	1439.4	1443.2	1445.1
7.5°	1422.5	1422.5	1430.0	1437.5	1441.3
10°	1405.5	1409.3	1418.7	1430.0	1433.8
12.5°	1386.7	1390.4	1403.6	1418.7	1424.4
15°	1360.3	1365.9	1384.8	1403.6	1411.2
17.5°	1332.0	1339.6	1362.2	1384.8	1394.2
20°	1301.9	1309.4	1337.7	1364.1	1375.4
22.5°	1268.0	1277.4	1309.4	1337.7	1349.0
25°	1230.3	1241.6	1273.6	1305.7	1320.7
27.5°	1188.8	1202.0	1237.8	1271.7	1284.9
30°	1145.5	1160.6	1196.4	1232.2	1245.4
32.5°	1098.4	1111.6	1154.9	1188.8	1202.0
35°	1051.3	1064.5	1105.9	1143.6	1156.8
37.5°	1000.4	1017.4	1058.8	1092.8	1105.9
40°	947.7	964.6	1004.2	1043.8	1055.1
42.5°	896.8	911.9	949.6	985.4	996.7
45°	844.1	857.2	894.9	927.0	943.9
47.5°	789.4	802.6	840.3	870.4	879.9
50°	734.8	748.0	780.0	806.4	817.7
52.5°	680.1	693.3	723.5	748.0	759.3
55°	625.5	634.9	663.2	685.8	695.2
57.5°	570.9	578.4	601.0	625.5	631.2
60°	514.3	523.8	544.5	561.5	569.0
62.5°	463.5	467.2	486.1	501.2	510.6
65°	410.7	412.6	425.8	442.8	446.5
67.5°	356.1	358.0	371.2	380.6	384.3
70°	305.2	305.2	314.6	322.2	325.9
72.5°	256.2	254.3	260.0	267.5	271.3
75°	205.4	205.4	211.0	214.8	216.7
77.5°	162.0	158.3	162.0	165.8	165.8
80°	118.7	116.8	116.8	118.7	116.8
82.5°	81.0	79.1	81.0	77.2	75.4
85°	45.2	43.3	41.4	37.7	37.7
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)