

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: P298459

Luminaire Tested: **D3X-WO-40L92765-LD5-UNV-22-T1-W2A-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P298459
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-40L92765-LD5-UNV-22-T1-W2A-4500K
Description: D3X LED 2x2 TUNABLE WHITE TROFFER
WITH OPAL LENS
Light Source: (252) 90 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3628.0 lumens
Efficiency: N/A
Efficacy: 111.3 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

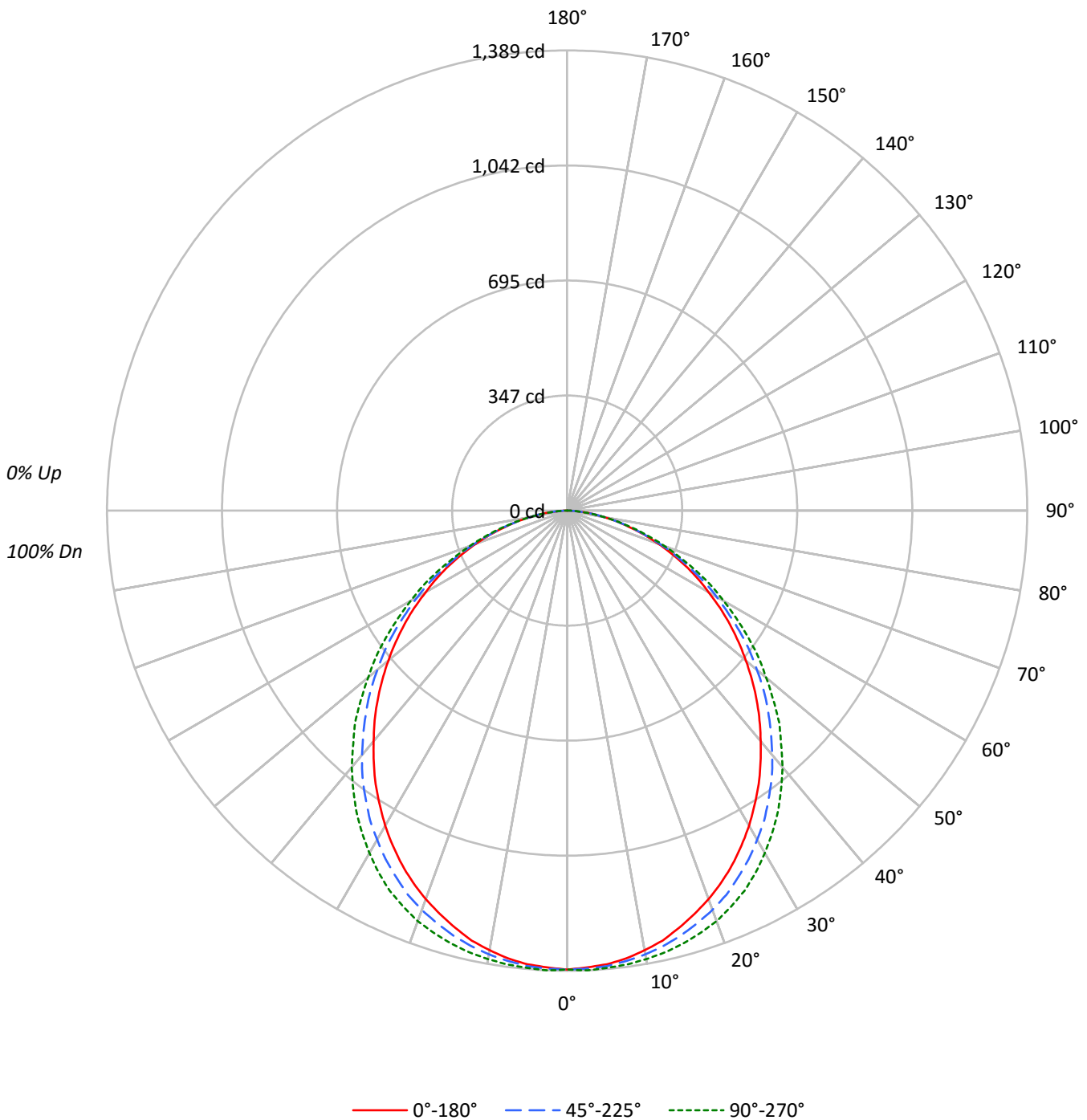
Input Watts (W): 32.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3728	3728	3728
5°	3713	3728	3743
10°	3682	3717	3756
15°	3633	3699	3769
20°	3574	3673	3776
25°	3502	3626	3760
30°	3413	3564	3710
35°	3311	3483	3643
40°	3192	3382	3554
45°	3080	3265	3444
50°	2949	3131	3282
55°	2814	2983	3127
60°	2654	2809	2936
65°	2507	2599	2726
70°	2302	2374	2459
75°	2047	2103	2159
80°	1764	1736	1736
85°	1340	1226	1115



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.1	3.6
10°-20°	374.6	10.3
20°-30°	562.5	15.5
30°-40°	662.0	18.2
40°-50°	660.3	18.2
50°-60°	566.6	15.6
60°-70°	405.8	11.2
70°-80°	214.9	5.9
80°-90°	50.3	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°	1068.2	29.4
0°-40°	1730.1	47.7
0°-60°	2957.0	81.5
0°-90°	3628.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3628.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1386	1386	1386	1386	1386	
5°	1375	1375	1380	1384	1386	130
15°	1304	1310	1328	1346	1353	368
25°	1180	1190	1221	1252	1266	543
35°	1008	1021	1060	1096	1109	630
45°	809	822	858	889	905	624
55°	600	609	636	658	667	536
65°	394	396	408	424	428	389
75°	197	197	202	206	208	211
85°	43	42	40	36	36	52
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1385.5	1385.5	1385.5	1385.5	1385.5
2.5°	1380.1	1380.1	1383.7	1387.3	1389.1
5°	1374.7	1374.7	1380.1	1383.7	1385.5
7.5°	1363.8	1363.8	1371.0	1378.3	1381.9
10°	1347.6	1351.2	1360.2	1371.0	1374.7
12.5°	1329.5	1333.1	1345.8	1360.2	1365.6
15°	1304.2	1309.6	1327.7	1345.8	1353.0
17.5°	1277.1	1284.3	1306.0	1327.7	1336.7
20°	1248.2	1255.4	1282.5	1307.8	1318.7
22.5°	1215.7	1224.7	1255.4	1282.5	1293.4
25°	1179.6	1190.4	1221.1	1251.8	1266.3
27.5°	1139.8	1152.5	1186.8	1219.3	1232.0
30°	1098.3	1112.7	1147.1	1181.4	1194.0
32.5°	1053.1	1065.8	1107.3	1139.8	1152.5
35°	1008.0	1020.6	1060.4	1096.5	1109.1
37.5°	959.2	975.5	1015.2	1047.7	1060.4
40°	908.6	924.9	962.8	1000.7	1011.6
42.5°	859.8	874.3	910.4	944.7	955.6
45°	809.3	821.9	858.0	888.7	905.0
47.5°	756.9	769.5	805.6	834.6	843.6
50°	704.5	717.1	747.8	773.1	784.0
52.5°	652.1	664.8	693.7	717.1	728.0
55°	599.7	608.8	635.8	657.5	666.6
57.5°	547.3	554.6	576.2	599.7	605.1
60°	493.1	502.2	522.0	538.3	545.5
62.5°	444.4	448.0	466.0	480.5	489.5
65°	393.8	395.6	408.2	424.5	428.1
67.5°	341.4	343.2	355.9	364.9	368.5
70°	292.6	292.6	301.7	308.9	312.5
72.5°	245.7	243.9	249.3	256.5	260.1
75°	196.9	196.9	202.3	205.9	207.7
77.5°	155.3	151.7	155.3	159.0	159.0
80°	113.8	112.0	112.0	113.8	112.0
82.5°	77.7	75.9	77.7	74.1	72.3
85°	43.4	41.5	39.7	36.1	36.1
87.5°	14.5	12.6	12.6	14.5	14.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)