

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: P298159

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P298159
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-6)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WG-40L83050-LD5-UNV-22-T1-W2A-4000K
Description: D3X LED 2x2 TUNABLE WHITE TROFFER
WITH RECTANGULAR PERF LENS
Light Source: (252) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3944.0 lumens
Efficiency: N/A
Efficacy: 120.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.3 / 1.35
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

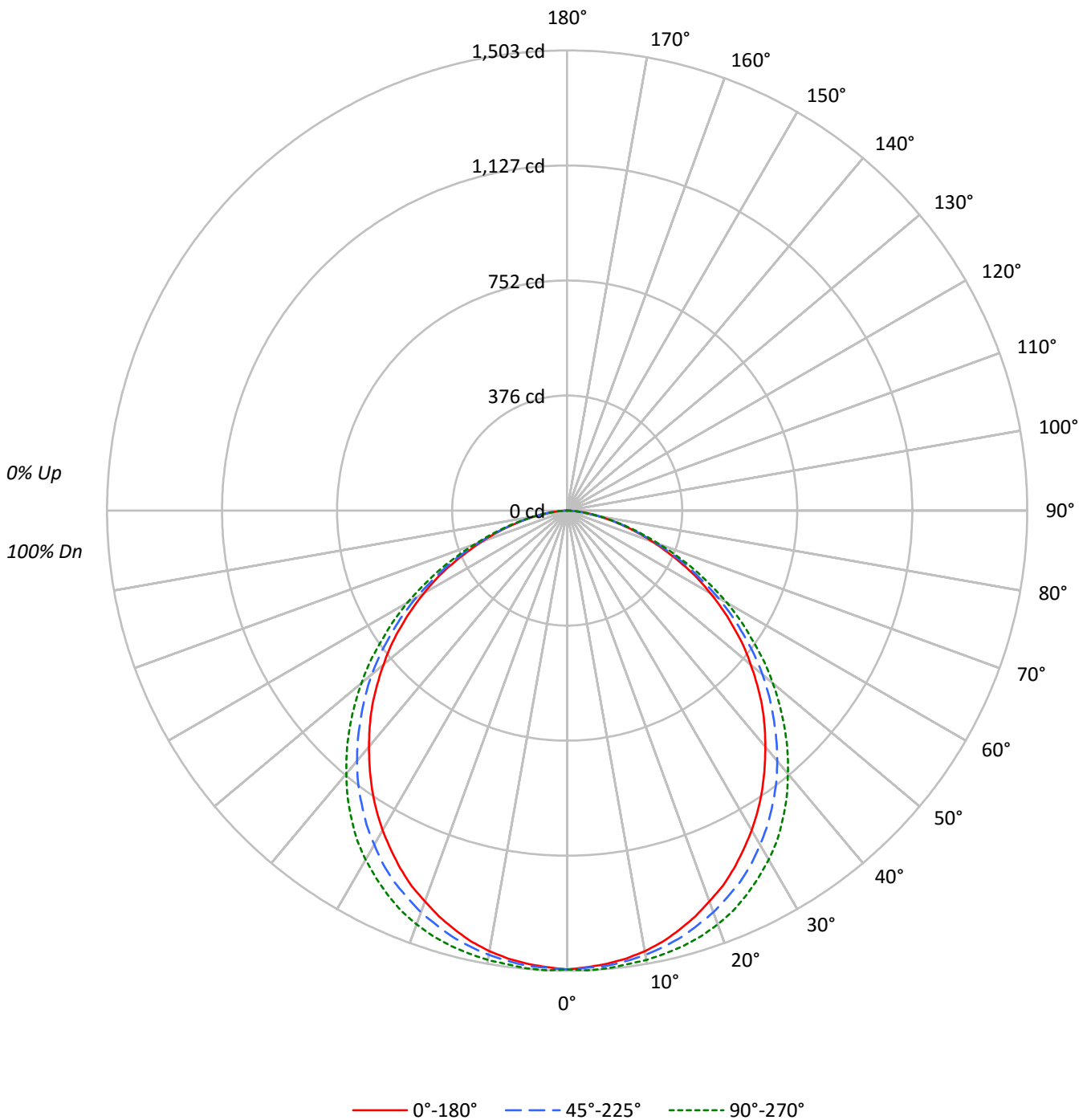
Input Watts (W): 32.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	86	80	97	90	84	79	87	82	77	83	79	76	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	82	71	63	57	68	61	56	66	60	55	64	59	54	52					52			
5	77	65	56	49	75	64	55	49	61	54	49	59	53	48	58	52	48	45					45			
6	71	58	50	43	69	57	49	43	56	48	43	54	47	42	52	47	42	40					40			
7	66	53	44	38	64	52	44	38	51	43	38	49	43	38	48	42	37	35					35			
8	62	48	40	34	60	48	40	34	46	39	34	45	39	34	44	38	34	32					32			
9	58	44	36	31	56	44	36	31	43	36	31	42	35	30	41	35	30	28					28			
10	54	41	33	28	53	40	33	28	40	33	28	39	32	28	38	32	28	26					26			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4033	4033	4033
5°	4015	4032	4054
10°	3992	4027	4073
15°	3948	4018	4100
20°	3891	3998	4118
25°	3829	3972	4115
30°	3746	3916	4091
35°	3651	3844	4037
40°	3537	3750	3941
45°	3425	3625	3824
50°	3278	3488	3672
55°	3113	3290	3467
60°	2907	3064	3245
65°	2653	2772	2932
70°	2323	2421	2520
75°	1981	2024	2112
80°	1590	1623	1655
85°	1164	1099	1034



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.9	3.6
10°-20°	407.2	10.3
20°-30°	615.6	15.6
30°-40°	731.2	18.5
40°-50°	734.0	18.6
50°-60°	627.0	15.9
60°-70°	432.0	11.0
70°-80°	209.5	5.3
80°-90°	45.8	1.2
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°	1164.6	29.5
0°-40°	1895.7	48.1
0°-60°	3256.8	82.6
0°-90°	3944.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3944.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1499	1499	1499	1499	1499	
5°	1486	1486	1492	1497	1501	141
15°	1417	1424	1442	1461	1472	400
25°	1290	1300	1338	1373	1386	593
35°	1112	1128	1170	1214	1229	694
45°	900	913	952	992	1005	693
55°	664	674	701	731	739	593
65°	417	417	435	454	460	413
75°	190	186	195	199	203	205
85°	38	38	36	34	34	46
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1498.8	1498.8	1498.8	1498.8	1498.8
2.5°	1492.5	1492.5	1494.6	1500.9	1503.0
5°	1486.3	1486.3	1492.5	1496.7	1500.9
7.5°	1475.8	1477.9	1484.2	1492.5	1494.6
10°	1461.1	1463.2	1473.7	1484.2	1490.4
12.5°	1442.3	1446.5	1459.0	1475.8	1482.1
15°	1417.2	1423.5	1442.3	1461.1	1471.6
17.5°	1390.0	1398.3	1419.3	1446.5	1456.9
20°	1358.6	1369.0	1396.2	1425.5	1438.1
22.5°	1327.2	1335.5	1366.9	1400.4	1415.1
25°	1289.5	1299.9	1337.6	1373.2	1385.8
27.5°	1247.6	1262.3	1302.0	1339.7	1352.3
30°	1205.7	1218.3	1260.2	1302.0	1316.7
32.5°	1159.7	1172.3	1218.3	1260.2	1276.9
35°	1111.5	1128.3	1170.2	1214.1	1228.8
37.5°	1059.2	1078.1	1122.0	1159.7	1178.5
40°	1006.9	1023.6	1067.6	1107.4	1122.0
42.5°	954.5	969.2	1011.1	1052.9	1065.5
45°	900.1	912.7	952.5	992.2	1004.8
47.5°	841.5	856.2	893.8	927.3	942.0
50°	782.9	797.6	833.1	864.5	877.1
52.5°	726.4	734.8	768.2	797.6	812.2
55°	663.6	674.0	701.3	730.6	738.9
57.5°	602.9	609.2	636.4	661.5	674.0
60°	540.1	544.3	569.4	588.2	602.9
62.5°	481.5	481.5	500.3	521.2	529.6
65°	416.6	416.6	435.4	454.2	460.5
67.5°	353.8	358.0	370.5	385.2	389.4
70°	295.2	295.2	307.7	318.2	320.3
72.5°	242.8	240.7	247.0	255.4	259.6
75°	190.5	186.3	194.7	198.9	203.1
77.5°	144.4	142.3	146.5	150.7	150.7
80°	102.6	100.5	104.7	104.7	106.8
82.5°	67.0	69.1	69.1	67.0	64.9
85°	37.7	37.7	35.6	33.5	33.5
87.5°	12.6	12.6	12.6	14.7	14.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)