

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: P298162

Luminaire Tested: **D3X-WG-44L83050-LD5-UNV-22-T1-W2A-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P298162
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-44L83050-LD5-UNV-22-T1-W2A-3000K
Description: D3X LED 2x2 TUNABLE WHITE TROFFER
WITH RECTANGULAR PERF LENS
Light Source: (252) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3888.0 lumens
Efficiency: N/A
Efficacy: 109.5 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

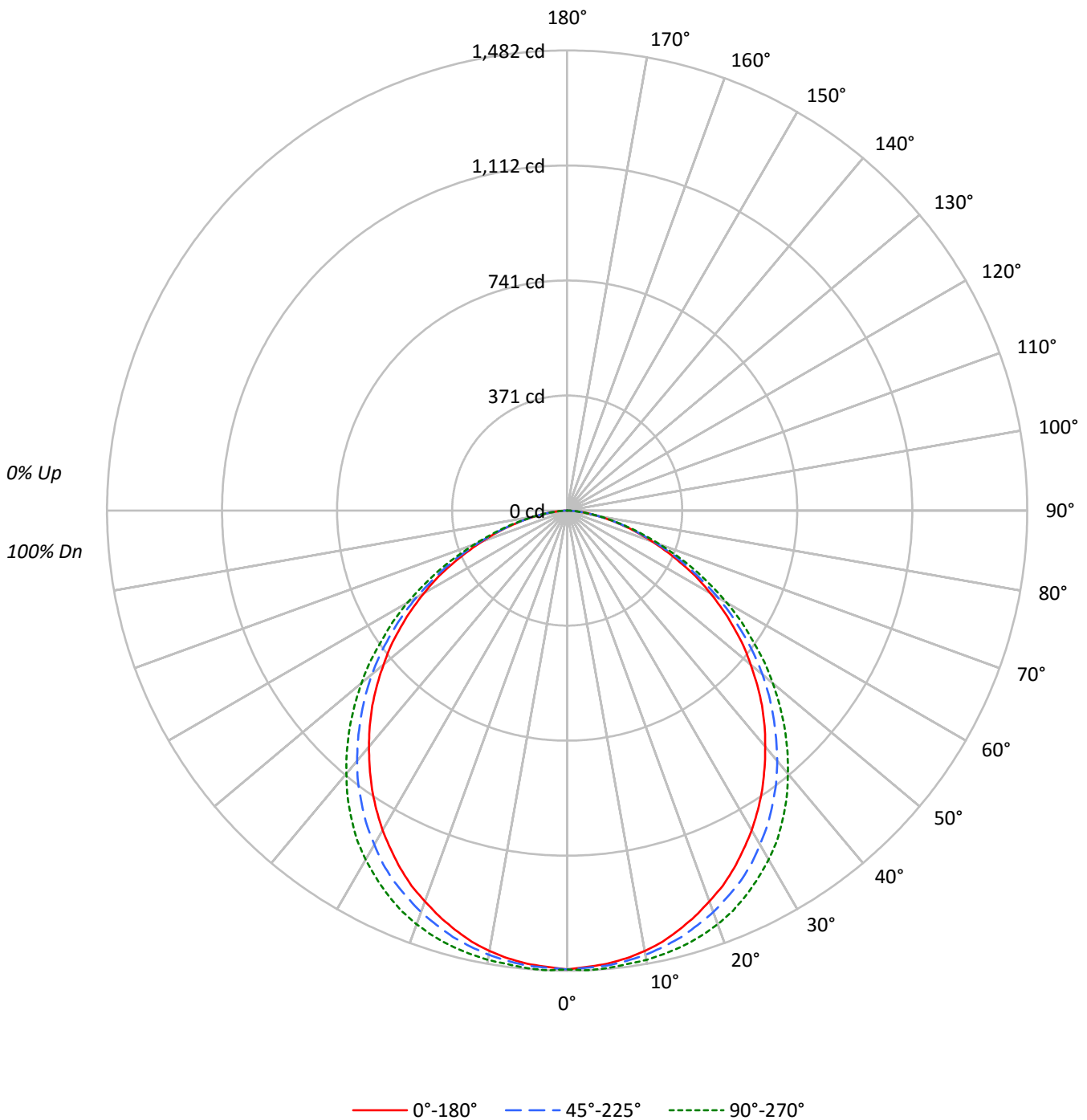
Input Watts (W): 35.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3976	3976	3976
5°	3958	3974	3997
10°	3936	3970	4015
15°	3892	3961	4042
20°	3835	3942	4060
25°	3774	3915	4056
30°	3693	3860	4033
35°	3600	3789	3979
40°	3487	3697	3886
45°	3377	3573	3769
50°	3231	3438	3620
55°	3069	3243	3417
60°	2865	3021	3198
65°	2615	2733	2891
70°	2290	2386	2484
75°	1953	1995	2082
80°	1567	1599	1630
85°	1145	1084	1019



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.9	3.6
10°-20°	401.4	10.3
20°-30°	606.8	15.6
30°-40°	720.8	18.5
40°-50°	723.6	18.6
50°-60°	618.1	15.9
60°-70°	425.8	11.0
70°-80°	206.5	5.3
80°-90°	45.2	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°	1148.1	29.5
0°-40°	1868.8	48.1
0°-60°	3210.5	82.6
0°-90°	3888.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3888.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1478	1478	1478	1478	1478	
5°	1465	1465	1471	1476	1480	139
15°	1397	1403	1422	1440	1451	394
25°	1271	1282	1319	1354	1366	585
35°	1096	1112	1154	1197	1211	684
45°	887	900	939	978	990	683
55°	654	664	691	720	728	585
65°	411	411	429	448	454	407
75°	188	184	192	196	200	202
85°	37	37	35	33	33	45
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1477.5	1477.5	1477.5	1477.5	1477.5
2.5°	1471.3	1471.3	1473.4	1479.6	1481.7
5°	1465.1	1465.1	1471.3	1475.5	1479.6
7.5°	1454.8	1456.9	1463.1	1471.3	1473.4
10°	1440.4	1442.4	1452.8	1463.1	1469.3
12.5°	1421.8	1425.9	1438.3	1454.8	1461.0
15°	1397.0	1403.2	1421.8	1440.4	1450.7
17.5°	1370.2	1378.5	1399.1	1425.9	1436.3
20°	1339.3	1349.6	1376.4	1405.3	1417.7
22.5°	1308.3	1316.6	1347.5	1380.5	1395.0
25°	1271.2	1281.5	1318.6	1353.7	1366.1
27.5°	1229.9	1244.3	1283.6	1320.7	1333.1
30°	1188.6	1201.0	1242.3	1283.6	1298.0
32.5°	1143.2	1155.6	1201.0	1242.3	1258.8
35°	1095.8	1112.3	1153.5	1196.9	1211.3
37.5°	1044.2	1062.7	1106.1	1143.2	1161.8
40°	992.6	1009.1	1052.4	1091.6	1106.1
42.5°	941.0	955.4	996.7	1038.0	1050.4
45°	887.3	899.7	938.9	978.1	990.5
47.5°	829.6	844.0	881.2	914.2	928.6
50°	771.8	786.2	821.3	852.3	864.6
52.5°	716.1	724.3	757.3	786.2	800.7
55°	654.2	664.5	691.3	720.2	728.4
57.5°	594.3	600.5	627.3	652.1	664.5
60°	532.4	536.5	561.3	579.9	594.3
62.5°	474.6	474.6	493.2	513.8	522.1
65°	410.7	410.7	429.2	447.8	454.0
67.5°	348.7	352.9	365.3	379.7	383.8
70°	291.0	291.0	303.3	313.7	315.7
72.5°	239.4	237.3	243.5	251.8	255.9
75°	187.8	183.7	191.9	196.0	200.2
77.5°	142.4	140.3	144.5	148.6	148.6
80°	101.1	99.1	103.2	103.2	105.2
82.5°	66.0	68.1	68.1	66.0	64.0
85°	37.1	37.1	35.1	33.0	33.0
87.5°	12.4	12.4	12.4	14.4	14.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)