

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: P298249

Luminaire Tested: **D3X-WG-44L93050-LD5-UNV-22-T1-W2A-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P298249
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-44L93050-LD5-UNV-22-T1-W2A-4500K
Description: D3X LED 2x2 TUNABLE WHITE TROFFER
WITH RECTANGULAR PERF LENS
Light Source: (252) 90 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3842.0 lumens
Efficiency: N/A
Efficacy: 103.6 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

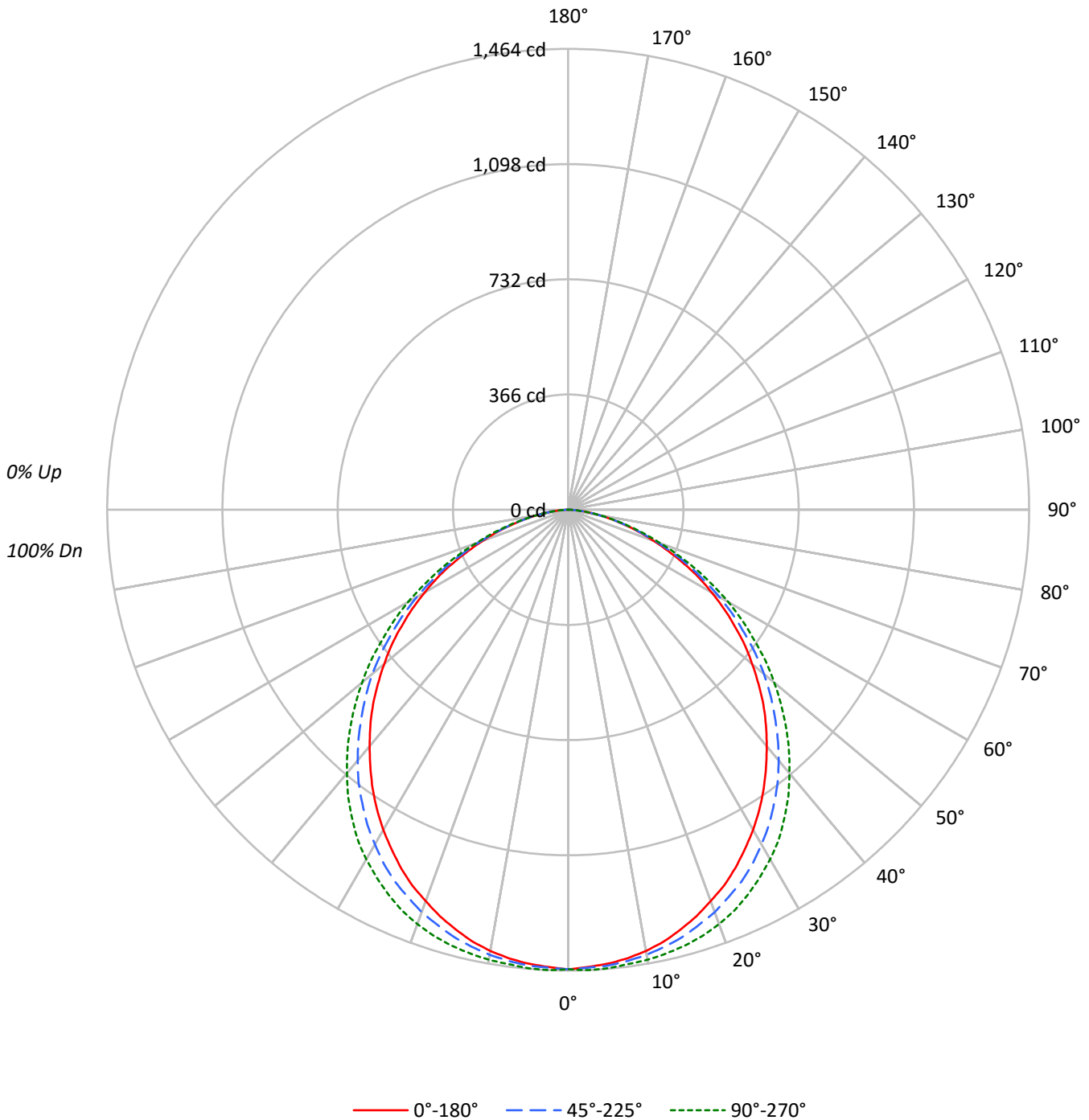
Input Watts (W): 37.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	103	99	96	98	95	93		95	92	90		91	89	87	85
2	100	92	86	80	97	90	84	79	87	82	77		83	79	76		80	77	74	72
3	91	81	73	67	89	80	72	66	77	70	65		74	69	64		71	67	63	61
4	84	72	64	57	82	71	63	57	68	61	56		66	60	55		64	59	54	52
5	77	65	56	49	75	64	55	49	61	54	49		59	53	48		58	52	48	45
6	71	58	50	43	69	57	49	43	56	48	43		54	47	42		52	47	42	40
7	66	53	44	38	64	52	44	38	51	43	38		49	43	38		48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34		45	39	34		44	38	34	32
9	58	44	36	31	56	44	36	31	43	36	31		42	35	30		41	35	30	28
10	54	41	33	28	53	40	33	28	40	33	28		39	32	28		38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3929	3929	3929
5°	3911	3927	3950
10°	3889	3923	3967
15°	3846	3914	3994
20°	3790	3895	4012
25°	3730	3869	4008
30°	3650	3814	3985
35°	3557	3745	3932
40°	3445	3653	3840
45°	3337	3531	3725
50°	3193	3398	3577
55°	3033	3205	3377
60°	2831	2985	3161
65°	2584	2700	2856
70°	2262	2359	2455
75°	1930	1971	2057
80°	1548	1581	1612
85°	1133	1071	1007



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.2	3.6
10°-20°	396.6	10.3
20°-30°	599.6	15.6
30°-40°	712.2	18.5
40°-50°	715.0	18.6
50°-60°	610.8	15.9
60°-70°	420.8	11.0
70°-80°	204.0	5.3
80°-90°	44.6	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°	1134.5	29.5
0°-40°	1846.7	48.1
0°-60°	3172.5	82.6
0°-90°	3842.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3842.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1460	1460	1460	1460	1460	
5°	1448	1448	1454	1458	1462	137
15°	1380	1387	1405	1423	1434	389
25°	1256	1266	1303	1338	1350	578
35°	1083	1099	1140	1183	1197	676
45°	877	889	928	967	979	675
55°	646	657	683	712	720	578
65°	406	406	424	442	449	402
75°	186	182	190	194	198	199
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°	1460.0	1460.0	1460.0	1460.0	1460.0
2.5°	1453.9	1453.9	1456.0	1462.1	1464.1
5°	1447.8	1447.8	1453.9	1458.0	1462.1
7.5°	1437.6	1439.7	1445.8	1453.9	1456.0
10°	1423.3	1425.4	1435.6	1445.8	1451.9
12.5°	1405.0	1409.1	1421.3	1437.6	1443.7
15°	1380.5	1386.6	1405.0	1423.3	1433.5
17.5°	1354.0	1362.2	1382.6	1409.1	1419.3
20°	1323.4	1333.6	1360.1	1388.7	1400.9
22.5°	1292.8	1301.0	1331.6	1364.2	1378.5
25°	1256.1	1266.3	1303.0	1337.7	1349.9
27.5°	1215.3	1229.6	1268.4	1305.1	1317.3
30°	1174.6	1186.8	1227.6	1268.4	1282.6
32.5°	1129.7	1141.9	1186.8	1227.6	1243.9
35°	1082.8	1099.1	1139.9	1182.7	1197.0
37.5°	1031.8	1050.2	1093.0	1129.7	1148.1
40°	980.8	997.2	1040.0	1078.7	1093.0
42.5°	929.9	944.1	984.9	1025.7	1037.9
45°	876.8	889.1	927.8	966.6	978.8
47.5°	819.7	834.0	870.7	903.4	917.6
50°	762.7	776.9	811.6	842.2	854.4
52.5°	707.6	715.7	748.4	776.9	791.2
55°	646.4	656.6	683.1	711.7	719.8
57.5°	587.3	593.4	619.9	644.4	656.6
60°	526.1	530.2	554.7	573.0	587.3
62.5°	469.0	469.0	487.4	507.8	515.9
65°	405.8	405.8	424.1	442.5	448.6
67.5°	344.6	348.7	360.9	375.2	379.3
70°	287.5	287.5	299.8	310.0	312.0
72.5°	236.5	234.5	240.6	248.8	252.9
75°	185.6	181.5	189.6	193.7	197.8
77.5°	140.7	138.7	142.7	146.8	146.8
80°	99.9	97.9	102.0	102.0	104.0
82.5°	65.3	67.3	67.3	65.3	63.2
85°	36.7	36.7	34.7	32.6	32.6
87.5°	12.2	12.2	12.2	14.3	14.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)