

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: P298248

Luminaire Tested: **D3X-WG-44L93050-LD5-UNV-22-T1-W2A-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P298248
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-4000K
Description: D3X LED 2x2 TUNABLE WHITE TROFFER
WITH RECTANGULAR PERF LENS
Light Source: (252) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3777.0 lumens
Efficiency: N/A
Efficacy: 103.5 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

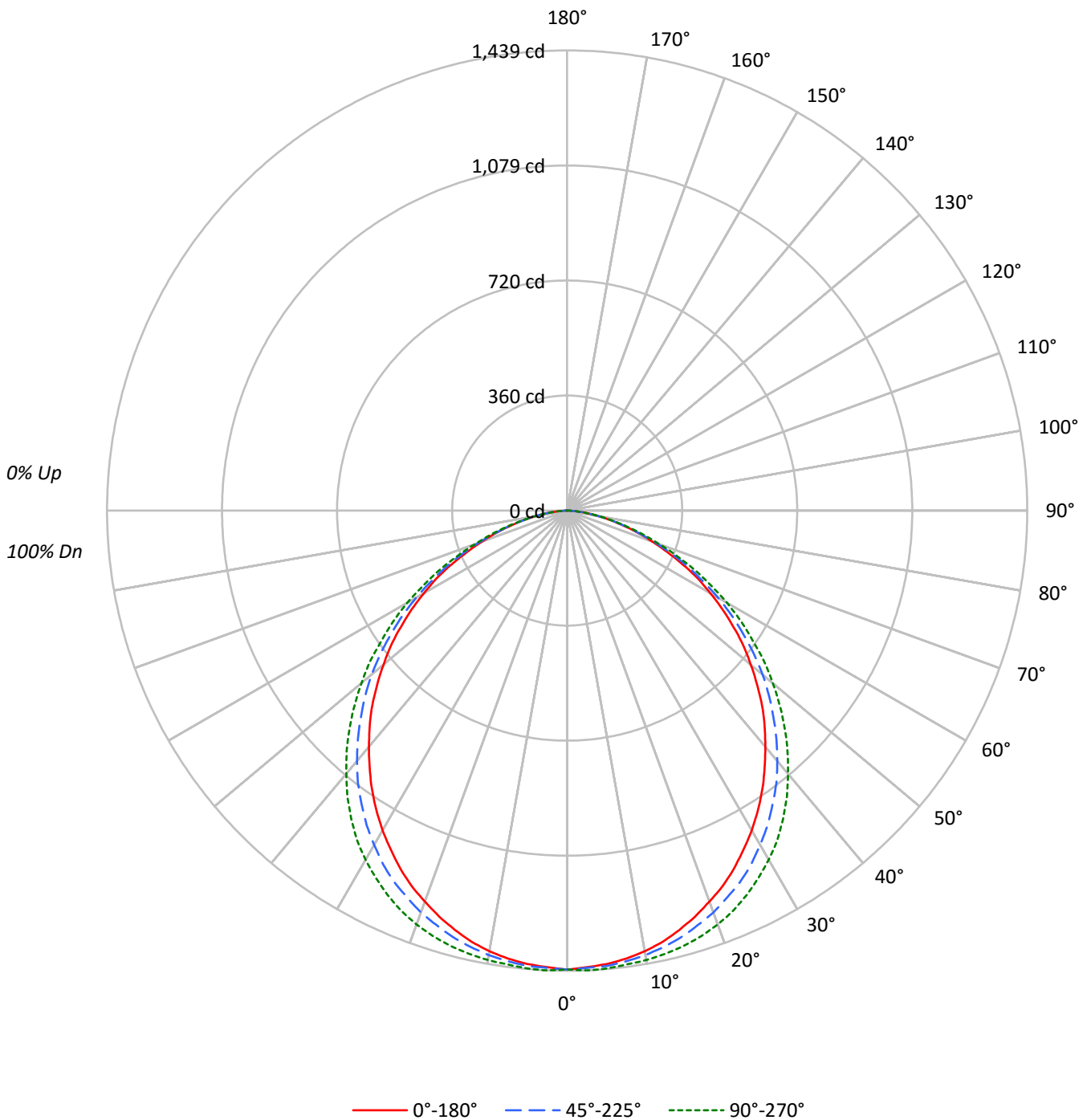
Input Watts (W): 36.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	3862	3862	3862
5°	3845	3861	3883
10°	3824	3856	3900
15°	3781	3848	3926
20°	3726	3829	3944
25°	3667	3804	3940
30°	3588	3750	3918
35°	3497	3681	3866
40°	3387	3592	3775
45°	3280	3471	3662
50°	3139	3340	3517
55°	2981	3151	3320
60°	2784	2935	3107
65°	2540	2655	2808
70°	2224	2319	2413
75°	1896	1938	2022
80°	1522	1553	1584
85°	1115	1053	991



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.9	3.6
10°-20°	389.9	10.3
20°-30°	589.5	15.6
30°-40°	700.2	18.5
40°-50°	702.9	18.6
50°-60°	600.4	15.9
60°-70°	413.7	11.0
70°-80°	200.6	5.3
80°-90°	43.9	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°	1115.3	29.5
0°-40°	1815.5	48.1
0°-60°	3118.9	82.6
0°-90°	3777.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3777.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1435	1435	1435	1435	1435	
5°	1423	1423	1429	1433	1437	135
15°	1357	1363	1381	1399	1409	383
25°	1235	1245	1281	1315	1327	568
35°	1064	1080	1121	1163	1177	665
45°	862	874	912	950	962	664
55°	636	646	672	700	708	568
65°	399	399	417	435	441	395
75°	182	178	186	190	194	196
85°	36	36	34	32	32	44
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1435.3	1435.3	1435.3	1435.3	1435.3
2.5°	1429.3	1429.3	1431.3	1437.4	1439.4
5°	1423.3	1423.3	1429.3	1433.3	1437.4
7.5°	1413.3	1415.3	1421.3	1429.3	1431.3
10°	1399.3	1401.3	1411.3	1421.3	1427.3
12.5°	1381.2	1385.2	1397.3	1413.3	1419.3
15°	1357.2	1363.2	1381.2	1399.3	1409.3
17.5°	1331.1	1339.1	1359.2	1385.2	1395.3
20°	1301.0	1311.1	1337.1	1365.2	1377.2
22.5°	1271.0	1279.0	1309.1	1341.1	1355.2
25°	1234.9	1244.9	1281.0	1315.1	1327.1
27.5°	1194.8	1208.8	1246.9	1283.0	1295.0
30°	1154.7	1166.7	1206.8	1246.9	1260.9
32.5°	1110.6	1122.6	1166.7	1206.8	1222.9
35°	1064.5	1080.5	1120.6	1162.7	1176.7
37.5°	1014.4	1032.4	1074.5	1110.6	1128.6
40°	964.2	980.3	1022.4	1060.5	1074.5
42.5°	914.1	928.2	968.3	1008.4	1020.4
45°	862.0	874.0	912.1	950.2	962.2
47.5°	805.9	819.9	856.0	888.1	902.1
50°	749.7	763.8	797.9	827.9	840.0
52.5°	695.6	703.6	735.7	763.8	777.8
55°	635.5	645.5	671.6	699.6	707.6
57.5°	577.3	583.4	609.4	633.5	645.5
60°	517.2	521.2	545.3	563.3	577.3
62.5°	461.1	461.1	479.1	499.2	507.2
65°	398.9	398.9	417.0	435.0	441.0
67.5°	338.8	342.8	354.8	368.9	372.9
70°	282.7	282.7	294.7	304.7	306.7
72.5°	232.5	230.5	236.6	244.6	248.6
75°	182.4	178.4	186.4	190.4	194.5
77.5°	138.3	136.3	140.3	144.3	144.3
80°	98.2	96.2	100.2	100.2	102.2
82.5°	64.1	66.2	66.2	64.1	62.1
85°	36.1	36.1	34.1	32.1	32.1
87.5°	12.0	12.0	12.0	14.0	14.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)