

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: P296992

Luminaire Tested: **D3X-WG-31L83050-LD5-UNV-24-T1-W2A-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296992
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-9)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WG-31L83050-LD5-UNV-24-T1-W2A-4500K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH RECTANGULAR PERF LENS
Light Source: (504) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3090.0 lumens
Efficiency: N/A
Efficacy: 139.2 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.3 / 1.37
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

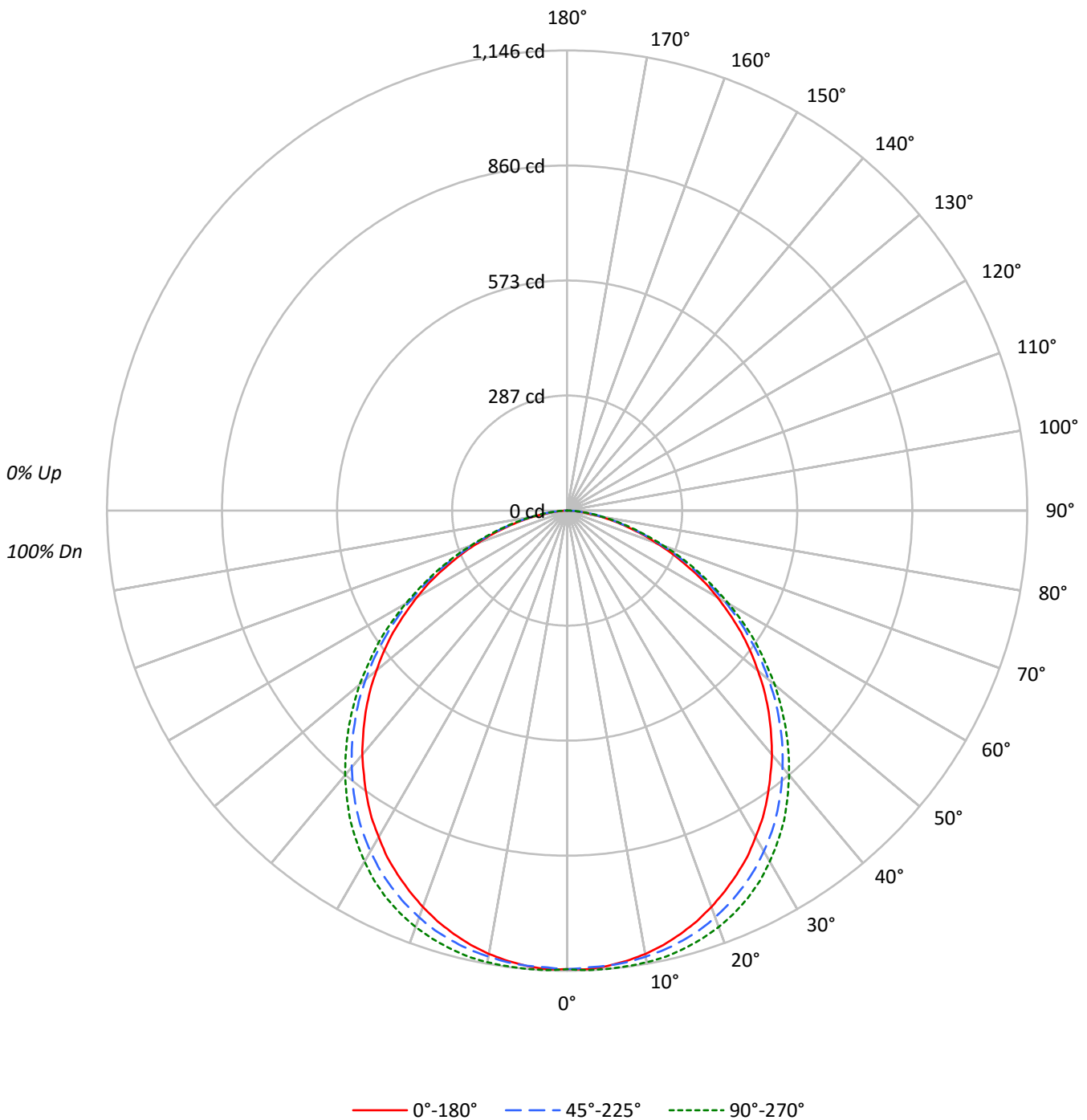
Input Watts (W): 22.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	95	98	95	92	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	47	42	37	35
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31
9	57	44	36	31	56	44	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	27	38	32	27	37	31	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1537	1537	1537
5°	1538	1537	1547
10°	1532	1541	1561
15°	1520	1545	1573
20°	1504	1544	1580
25°	1484	1536	1581
30°	1458	1522	1568
35°	1429	1500	1547
40°	1394	1466	1511
45°	1350	1424	1466
50°	1298	1372	1413
55°	1241	1304	1345
60°	1162	1221	1251
65°	1061	1117	1145
70°	932	980	1006
75°	788	829	857
80°	626	687	704
85°	428	513	496



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.5	3.5
10°-20°	313.4	10.1
20°-30°	476.2	15.4
30°-40°	568.2	18.4
40°-50°	573.9	18.6
50°-60°	494.5	16.0
60°-70°	344.7	11.2
70°-80°	170.8	5.5
80°-90°	39.8	1.3
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°	898.1	29.1
0°-40°	1466.3	47.5
0°-60°	2534.7	82.0
0°-90°	3090.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3090.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1142	1142	1142	1142	1142	
5°	1139	1138	1138	1143	1146	108
15°	1091	1097	1109	1124	1129	308
25°	1000	1013	1035	1056	1065	460
35°	870	884	913	934	942	544
45°	710	725	748	766	770	547
55°	529	540	556	569	573	472
65°	333	340	351	354	360	331
75°	152	154	159	163	165	163
85°	28	33	33	31	32	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1142.3	1142.3	1142.3	1142.3	1142.3
2.5°	1143.4	1141.2	1139.0	1143.4	1145.6
5°	1139.0	1137.9	1137.9	1143.4	1145.6
7.5°	1131.2	1131.2	1134.6	1142.3	1144.5
10°	1121.3	1123.5	1127.9	1139.0	1142.3
12.5°	1108.0	1112.4	1120.2	1133.5	1137.9
15°	1091.4	1096.9	1109.1	1123.5	1129.0
17.5°	1072.6	1080.3	1095.8	1112.4	1118.0
20°	1050.4	1060.4	1078.1	1096.9	1103.6
22.5°	1026.1	1038.3	1058.2	1078.1	1085.9
25°	999.5	1012.8	1034.9	1056.0	1064.8
27.5°	971.8	985.1	1009.5	1030.5	1039.4
30°	938.6	954.1	979.6	1001.7	1009.5
32.5°	906.5	922.0	948.6	968.5	976.3
35°	870.0	884.4	913.2	934.2	942.0
37.5°	831.3	847.9	875.5	894.4	901.0
40°	793.6	808.0	834.6	853.4	860.1
42.5°	751.6	767.1	793.6	810.2	815.8
45°	709.5	725.0	748.3	766.0	770.4
47.5°	666.3	680.7	704.0	718.4	722.8
50°	619.9	633.1	655.3	669.7	675.2
52.5°	575.6	587.8	606.6	618.7	622.1
55°	529.1	540.2	555.7	568.9	573.4
57.5°	479.3	491.5	505.8	516.9	520.2
60°	431.7	441.6	453.8	463.8	464.9
62.5°	385.2	389.6	400.7	409.5	410.7
65°	333.2	339.8	350.9	354.2	359.7
67.5°	285.6	290.0	298.9	303.3	307.7
70°	236.9	240.2	249.0	254.6	255.7
72.5°	194.8	195.9	202.6	207.0	208.1
75°	151.6	153.9	159.4	162.7	164.9
77.5°	115.1	117.3	121.8	124.0	124.0
80°	80.8	84.1	88.6	89.7	90.8
82.5°	52.0	56.5	59.8	60.9	58.7
85°	27.7	33.2	33.2	31.0	32.1
87.5°	10.0	12.2	13.3	14.4	14.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)