

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: P296711

Luminaire Tested: **D3X-WD-31L83050-LD5-UNV-24-T1-W2A-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296711
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-8)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WD-31L83050-LD5-UNV-24-T1-W2A-4000K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH ROUND PERF LENS
Light Source: (504) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3055.0 lumens
Efficiency: N/A
Efficacy: 140.8 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.29 / 1.36
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

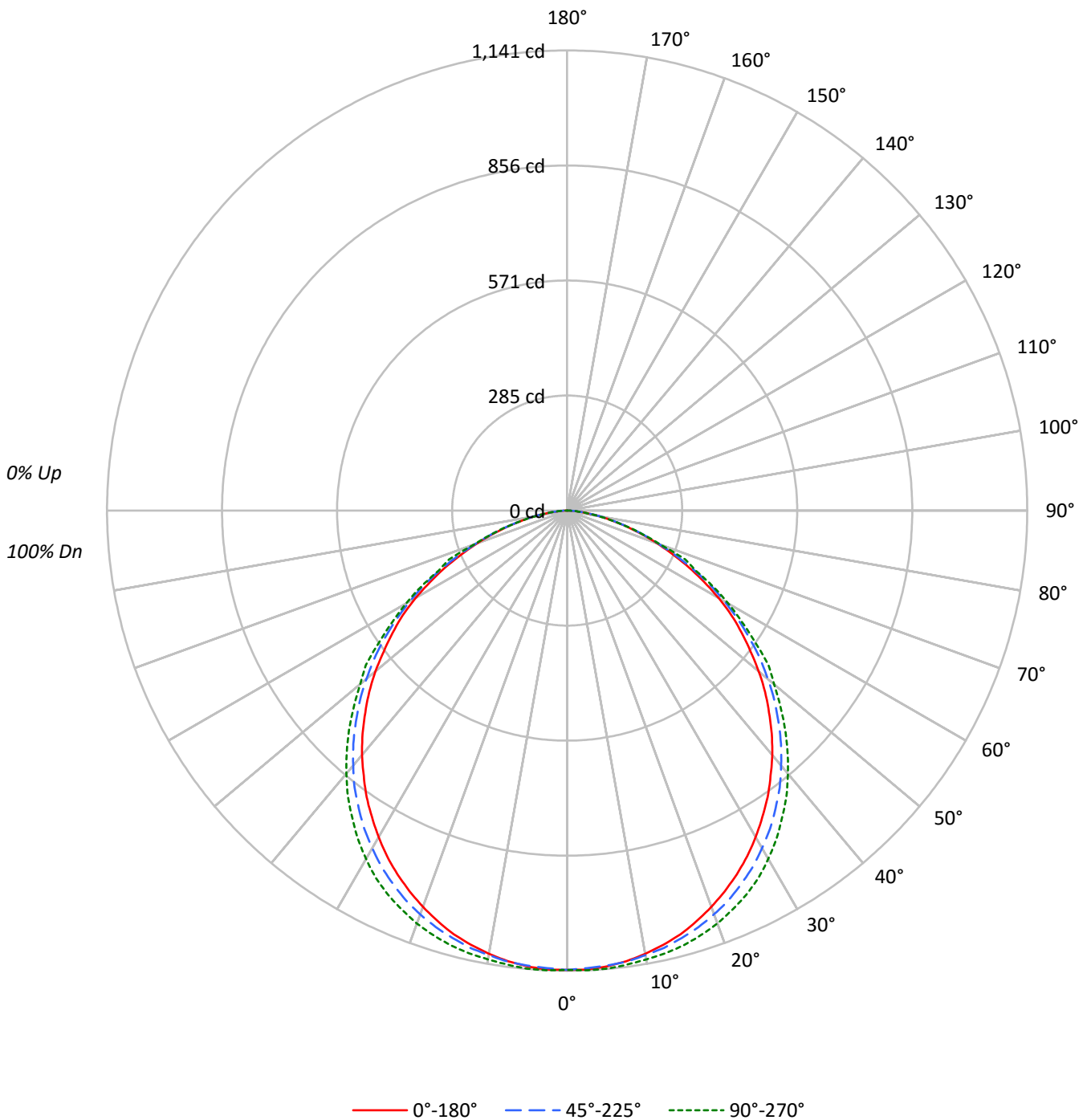
Input Watts (W): 21.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	87	81	77	83	79	75	80	77	74	72
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	48	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	28	38	32	27	37	32	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1532	1532	1532
5°	1532	1529	1540
10°	1525	1529	1544
15°	1515	1528	1554
20°	1497	1525	1560
25°	1478	1517	1561
30°	1453	1502	1550
35°	1424	1480	1527
40°	1390	1450	1496
45°	1347	1410	1454
50°	1299	1361	1402
55°	1239	1296	1335
60°	1168	1212	1242
65°	1061	1096	1117
70°	932	953	966
75°	787	798	804
80°	628	637	620
85°	423	440	423



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.9	3.5
10°-20°	310.4	10.2
20°-30°	470.9	15.4
30°-40°	562.2	18.4
40°-50°	569.2	18.6
50°-60°	492.0	16.1
60°-70°	341.0	11.2
70°-80°	165.0	5.4
80°-90°	36.3	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°	889.3	29.1
0°-40°	1451.5	47.5
0°-60°	2512.7	82.2
0°-90°	3055.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3055.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1139	1139	1139	1139	1139	
5°	1134	1133	1132	1138	1140	108
15°	1087	1090	1097	1110	1116	306
25°	995	1002	1022	1042	1051	458
35°	867	875	901	924	930	542
45°	708	718	741	760	764	546
55°	528	534	552	576	569	472
65°	333	336	344	350	351	330
75°	151	152	154	152	155	162
85°	27	30	28	27	27	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1138.9	1138.9	1138.9	1138.9	<i>1138.9</i>
2.5°	<i>1138.9</i>	<i>1137.8</i>	<i>1135.6</i>	<i>1138.9</i>	<i>1141.1</i>
5°	1134.5	1133.4	1132.3	1137.8	<i>1140.0</i>
7.5°	1126.8	1126.8	1127.9	1133.4	<i>1135.6</i>
10°	1115.9	1117.0	1119.2	1127.9	<i>1130.1</i>
12.5°	1102.7	1104.9	1110.4	1120.2	<i>1124.6</i>
15°	1087.4	1089.6	1097.2	1110.4	<i>1115.9</i>
17.5°	1067.6	1072.0	1083.0	1098.3	<i>1103.8</i>
20°	1045.7	1051.2	1065.4	1083.0	<i>1089.6</i>
22.5°	1021.6	1027.1	1045.7	1064.3	<i>1070.9</i>
25°	995.3	1001.9	1021.6	1042.4	<i>1051.2</i>
27.5°	966.8	974.5	996.4	1018.3	<i>1027.1</i>
30°	935.0	943.8	966.8	989.8	<i>997.5</i>
32.5°	901.0	909.8	936.1	958.0	<i>965.7</i>
35°	867.0	874.7	901.0	924.0	<i>929.5</i>
37.5°	828.7	837.4	865.9	885.7	<i>893.3</i>
40°	791.4	800.2	825.4	845.1	<i>851.7</i>
42.5°	750.9	759.6	784.8	803.5	<i>808.9</i>
45°	708.1	718.0	741.0	759.6	<i>764.0</i>
47.5°	665.4	673.0	697.1	713.6	<i>716.9</i>
50°	620.4	628.1	650.0	666.4	<i>669.7</i>
52.5°	573.3	585.3	602.9	614.9	<i>629.2</i>
55°	528.3	533.8	552.5	575.5	<i>568.9</i>
57.5°	483.4	486.7	502.0	511.9	<i>514.1</i>
60°	434.1	438.5	450.5	456.0	<i>461.5</i>
62.5°	382.6	385.8	400.1	405.6	<i>407.8</i>
65°	333.2	336.5	344.2	349.7	<i>350.8</i>
67.5°	282.8	286.1	292.7	297.1	<i>316.8</i>
70°	236.8	239.0	242.2	251.0	<i>245.5</i>
72.5°	192.9	194.0	197.3	197.3	<i>198.4</i>
75°	151.3	152.4	153.5	152.4	<i>154.6</i>
77.5°	112.9	115.1	116.2	115.1	<i>114.0</i>
80°	81.1	83.3	82.2	80.0	<i>80.0</i>
82.5°	52.6	53.7	52.6	51.5	<i>51.5</i>
85°	27.4	29.6	28.5	27.4	<i>27.4</i>
87.5°	9.9	11.0	12.1	13.2	<i>13.2</i>
90°	0.0	0.0	0.0	0.0	<i>0.0</i>

(END OF REPORT)