

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: P296989

Luminaire Tested: **D3X-WG-31L83050-LD5-UNV-24-T1-W2A-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296989
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-3000K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH RECTANGULAR PERF LENS
Light Source: (504) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2755.0 lumens
Efficiency: N/A
Efficacy: 130.0 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

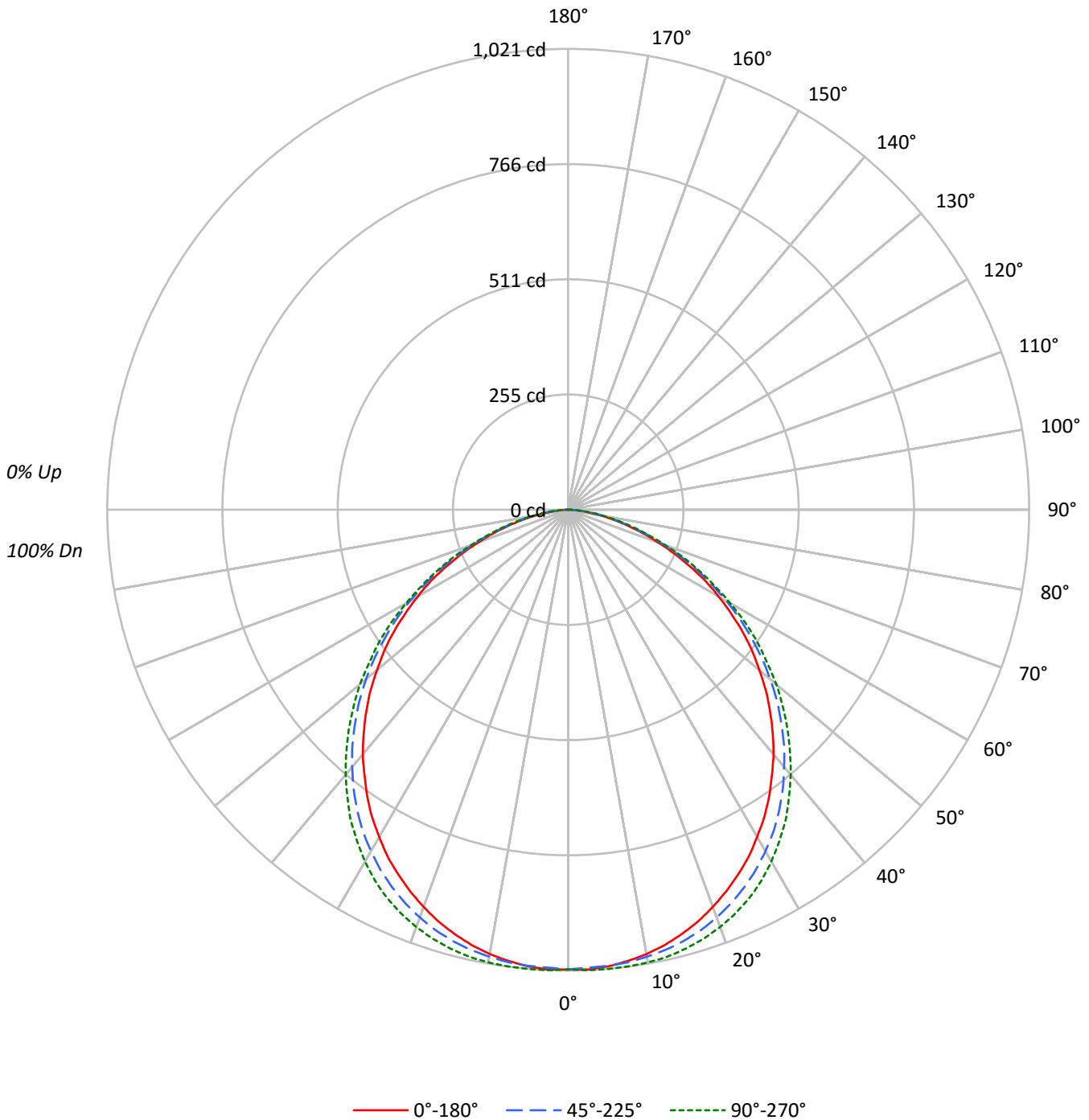
Input Watts (W): 21.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1370	1370	1370
5°	1372	1370	1380
10°	1366	1374	1392
15°	1355	1377	1402
20°	1341	1376	1409
25°	1323	1370	1409
30°	1300	1357	1398
35°	1274	1337	1379
40°	1243	1307	1347
45°	1204	1269	1307
50°	1157	1223	1260
55°	1107	1162	1199
60°	1036	1089	1115
65°	946	996	1021
70°	831	873	897
75°	703	739	764
80°	558	612	627
85°	381	457	442



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.8	3.5
10°-20°	279.4	10.1
20°-30°	424.6	15.4
30°-40°	506.6	18.4
40°-50°	511.7	18.6
50°-60°	440.8	16.0
60°-70°	307.3	11.2
70°-80°	152.3	5.5
80°-90°	35.5	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°	800.7	29.1
0°-40°	1307.4	47.5
0°-60°	2259.9	82.0
0°-90°	2755.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2755.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1018	1018	1018	1018	1018	
5°	1016	1014	1014	1020	1021	96
15°	973	978	989	1002	1007	274
25°	891	903	923	942	949	411
35°	776	788	814	833	840	485
45°	633	646	667	683	687	488
55°	472	482	495	507	511	420
65°	297	303	313	316	321	295
75°	135	137	142	145	147	146
85°	25	30	30	28	29	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1018.5	1018.5	1018.5	1018.5	1018.5
2.5°	1019.5	1017.5	1015.5	1019.5	1021.4
5°	1015.5	1014.5	1014.5	1019.5	1021.4
7.5°	1008.6	1008.6	1011.6	1018.5	1020.4
10°	999.7	1001.7	1005.6	1015.5	1018.5
12.5°	987.9	991.8	998.7	1010.6	1014.5
15°	973.1	978.0	988.9	1001.7	1006.6
17.5°	956.3	963.2	977.0	991.8	996.8
20°	936.6	945.4	961.2	978.0	983.9
22.5°	914.8	925.7	943.5	961.2	968.1
25°	891.2	903.0	922.7	941.5	949.4
27.5°	866.5	878.3	900.0	918.8	926.7
30°	836.9	850.7	873.4	893.1	900.0
32.5°	808.3	822.1	845.8	863.5	870.4
35°	775.7	788.5	814.2	832.9	839.8
37.5°	741.2	756.0	780.6	797.4	803.3
40°	707.6	720.4	744.1	760.9	766.8
42.5°	670.1	683.9	707.6	722.4	727.3
45°	632.6	646.4	667.1	682.9	686.9
47.5°	594.1	606.9	627.7	640.5	644.4
50°	552.7	564.5	584.2	597.1	602.0
52.5°	513.2	524.0	540.8	551.7	554.6
55°	471.7	481.6	495.4	507.3	511.2
57.5°	427.3	438.2	451.0	460.9	463.8
60°	384.9	393.8	404.6	413.5	414.5
62.5°	343.4	347.4	357.3	365.1	366.1
65°	297.1	303.0	312.8	315.8	320.7
67.5°	254.6	258.6	266.5	270.4	274.4
70°	211.2	214.2	222.0	227.0	228.0
72.5°	173.7	174.7	180.6	184.5	185.5
75°	135.2	137.2	142.1	145.1	147.0
77.5°	102.6	104.6	108.6	110.5	110.5
80°	72.0	75.0	79.0	79.9	80.9
82.5°	46.4	50.3	53.3	54.3	52.3
85°	24.7	29.6	29.6	27.6	28.6
87.5°	8.9	10.9	11.8	12.8	12.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)