

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: P296710

Luminaire Tested: **D3X-WD-31L83050-LD5-UNV-24-T1-W2A-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296710
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-3500K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH ROUND PERF LENS
Light Source: (504) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2910.0 lumens
Efficiency: N/A
Efficacy: 137.3 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

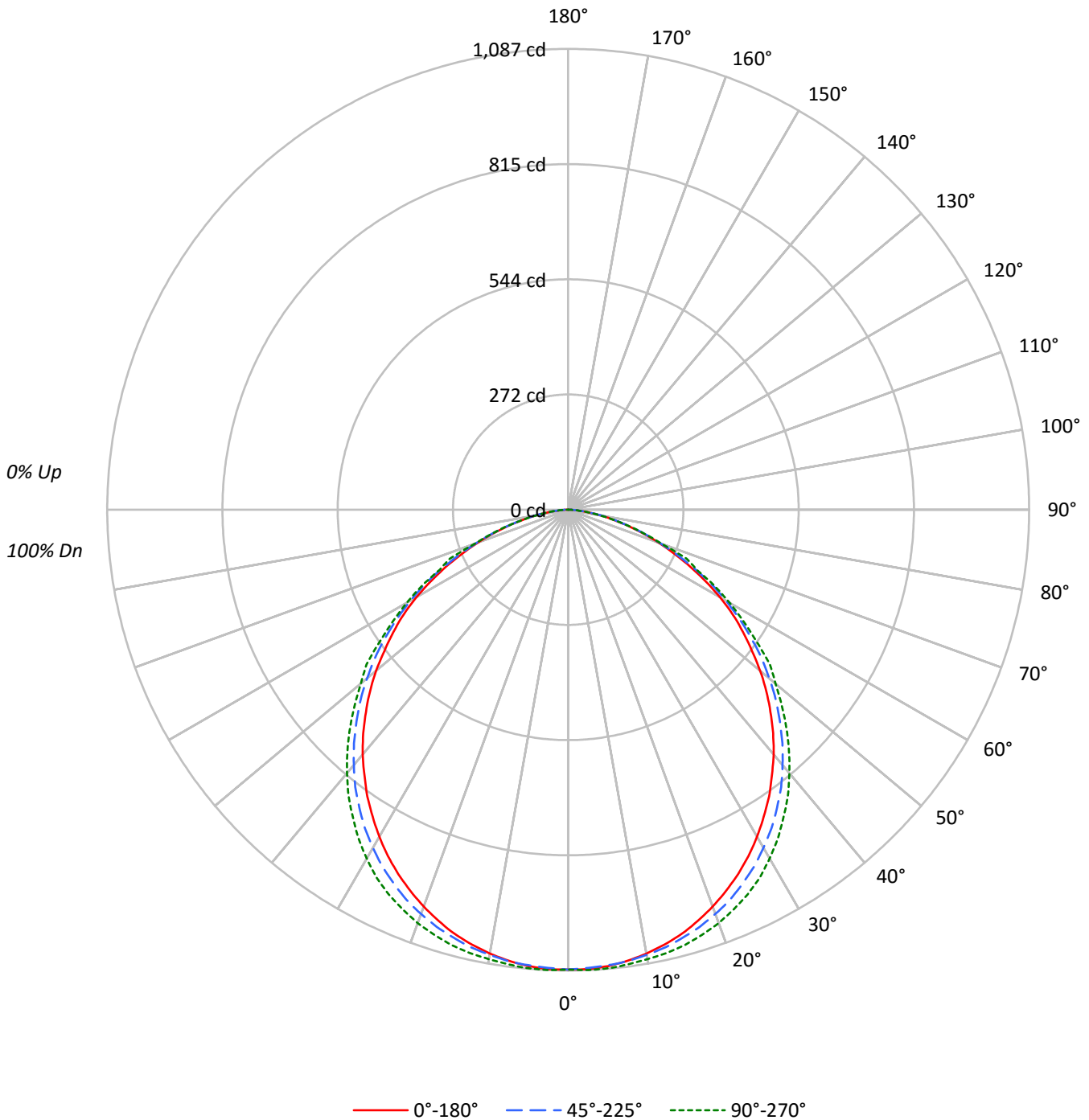
Input Watts (W): 21.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	1460	1460	1460
5°	1460	1457	1467
10°	1452	1456	1471
15°	1443	1456	1481
20°	1426	1453	1486
25°	1407	1445	1487
30°	1384	1431	1476
35°	1357	1410	1454
40°	1324	1381	1425
45°	1283	1343	1385
50°	1237	1296	1335
55°	1181	1234	1271
60°	1113	1155	1183
65°	1011	1044	1064
70°	887	908	920
75°	749	760	765
80°	599	607	590
85°	403	418	403



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.8	3.5
10°-20°	295.7	10.2
20°-30°	448.6	15.4
30°-40°	535.6	18.4
40°-50°	542.2	18.6
50°-60°	468.7	16.1
60°-70°	324.8	11.2
70°-80°	157.2	5.4
80°-90°	34.5	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°	847.0	29.1
0°-40°	1382.6	47.5
0°-60°	2393.5	82.3
0°-90°	2910.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2910.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1085	1085	1085	1085	1085	
5°	1081	1080	1079	1084	1086	103
15°	1036	1038	1045	1058	1063	292
25°	948	954	973	993	1001	437
35°	826	833	858	880	885	516
45°	674	684	706	724	728	520
55°	503	508	526	548	542	450
65°	317	320	328	333	334	314
75°	144	145	146	145	147	155
85°	26	28	27	26	26	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1084.8	1084.8	1084.8	1084.8	1084.8
2.5°	1084.8	1083.8	1081.7	1084.8	1086.9
5°	1080.7	1079.6	1078.6	1083.8	1085.9
7.5°	1073.3	1073.3	1074.4	1079.6	1081.7
10°	1062.9	1063.9	1066.0	1074.4	1076.5
12.5°	1050.4	1052.5	1057.7	1067.1	1071.3
15°	1035.8	1037.8	1045.2	1057.7	1062.9
17.5°	1017.0	1021.1	1031.6	1046.2	1051.4
20°	996.1	1001.3	1014.9	1031.6	1037.8
22.5°	973.1	978.3	996.1	1013.8	1020.1
25°	948.0	954.3	973.1	992.9	1001.3
27.5°	920.9	928.2	949.1	970.0	978.3
30°	890.6	899.0	920.9	942.8	950.1
32.5°	858.3	866.6	891.7	912.5	919.9
35°	825.9	833.2	858.3	880.2	885.4
37.5°	789.3	797.7	824.8	843.6	850.9
40°	753.8	762.2	786.2	805.0	811.3
42.5°	715.2	723.6	747.6	765.3	770.6
45°	674.5	683.9	705.8	723.6	727.7
47.5°	633.8	641.1	664.1	679.7	682.8
50°	591.0	598.3	619.2	634.8	637.9
52.5°	546.1	557.6	574.3	585.7	599.3
55°	503.3	508.5	526.2	548.2	541.9
57.5°	460.5	463.6	478.2	487.6	489.7
60°	413.5	417.6	429.1	434.3	439.6
62.5°	364.4	367.5	381.1	386.3	388.4
65°	317.4	320.5	327.8	333.1	334.1
67.5°	269.4	272.5	278.8	283.0	301.7
70°	225.5	227.6	230.7	239.1	233.9
72.5°	183.8	184.8	187.9	187.9	189.0
75°	144.1	145.1	146.2	145.1	147.2
77.5°	107.5	109.6	110.7	109.6	108.6
80°	77.3	79.4	78.3	76.2	76.2
82.5°	50.1	51.2	50.1	49.1	49.1
85°	26.1	28.2	27.1	26.1	26.1
87.5°	9.4	10.4	11.5	12.5	12.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)