

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: P297702

Luminaire Tested: **D3X-WG-31L83050-LD5-UNV-14-T1-W2A-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297702
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-3)
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-14-T1-W2A-4500K
Description: D3X LED 1x4 TUNABLE WHITE TROFFER
WITH RECTANGULAR PERF LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3135.0 lumens
Efficiency: N/A
Efficacy: 105.6 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.29 / 1.36
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

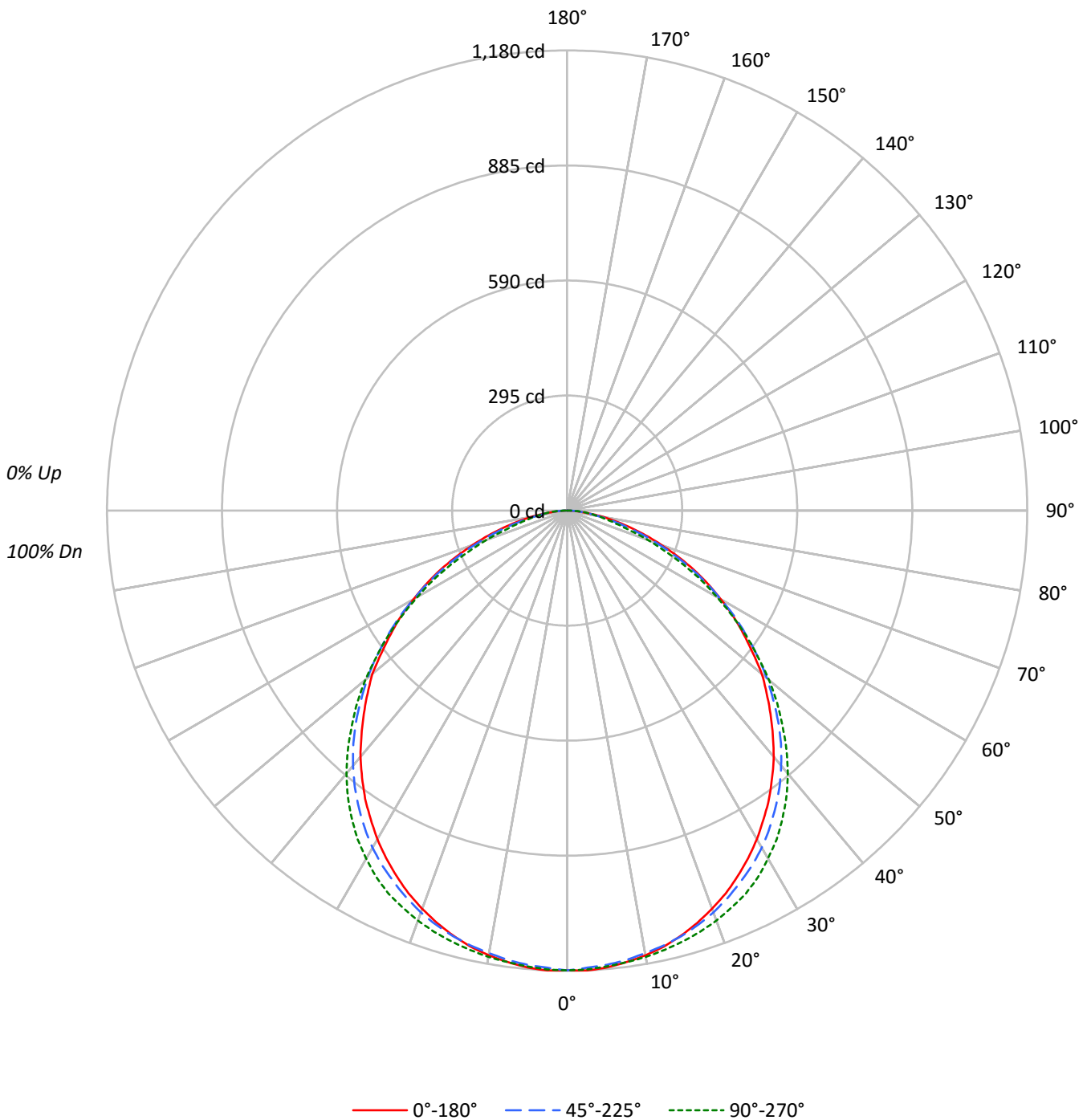
Input Watts (W): 29.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	95	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	87	82	77	83	79	75	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	81	71	63	57	68	61	56	66	60	55	64	59	54	52
5	77	65	56	49	75	63	55	49	61	54	48	59	53	48	58	52	47	45
6	71	58	49	43	69	57	49	43	55	48	43	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	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	31
9	58	44	36	31	56	44	36	31	43	35	30	41	35	30	40	35	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	38	32	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3173	3173	3173
5°	3177	3158	3170
10°	3164	3149	3176
15°	3144	3148	3187
20°	3111	3139	3204
25°	3072	3122	3218
30°	3023	3102	3202
35°	2966	3058	3164
40°	2896	2999	3093
45°	2806	2913	2972
50°	2729	2799	2829
55°	2592	2644	2631
60°	2452	2452	2384
65°	2276	2223	2098
70°	2019	1930	1743
75°	1749	1589	1341
80°	1433	1238	1216
85°	951	1124	1213



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.5	3.6
10°-20°	320.0	10.2
20°-30°	486.3	15.5
30°-40°	582.3	18.6
40°-50°	587.3	18.7
50°-60°	500.3	16.0
60°-70°	342.1	10.9
70°-80°	163.8	5.2
80°-90°	41.5	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°	917.8	29.3
0°-40°	1500.1	47.8
0°-60°	2587.7	82.5
0°-90°	3135.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3135.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1179	1179	1179	1179	1179	
5°	1176	1175	1169	1175	1173	112
15°	1128	1126	1130	1143	1144	318
25°	1035	1036	1051	1075	1084	477
35°	903	906	931	958	963	564
45°	737	743	765	781	781	569
55°	552	555	564	565	561	495
65°	358	350	349	336	330	353
75°	168	165	153	133	129	180
85°	31	34	36	38	39	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1179.0	1179.0	1179.0	1179.0	1179.0
2.5°	1180.4	1179.0	1173.4	1179.0	1177.6
5°	1176.2	1174.8	1169.2	1174.8	1173.4
7.5°	1167.8	1166.4	1162.2	1167.8	1167.8
10°	1158.0	1155.2	1152.4	1160.8	1162.2
12.5°	1145.4	1142.6	1142.6	1152.4	1153.8
15°	1128.5	1125.7	1129.9	1142.6	1144.0
17.5°	1108.9	1107.5	1114.5	1129.9	1132.8
20°	1086.5	1085.1	1096.3	1114.5	1118.7
22.5°	1062.7	1062.7	1075.3	1096.3	1101.9
25°	1034.6	1036.0	1051.4	1075.3	1083.7
27.5°	1005.2	1008.0	1026.2	1052.8	1059.9
30°	972.9	977.1	998.2	1023.4	1030.4
32.5°	937.9	942.1	965.9	992.6	999.6
35°	902.8	905.6	930.9	957.5	963.1
37.5°	863.6	867.8	894.4	918.3	923.9
40°	824.3	828.5	853.8	876.2	880.4
42.5°	780.9	786.5	811.7	829.9	832.7
45°	737.4	743.0	765.4	780.9	780.9
47.5°	694.0	696.8	716.4	731.8	730.4
50°	651.9	650.5	668.7	675.7	675.7
52.5°	600.0	604.2	616.8	621.1	616.8
55°	552.4	555.2	563.6	565.0	560.8
57.5°	506.1	504.7	511.7	507.5	501.9
60°	455.6	455.6	455.6	451.4	443.0
62.5°	406.6	403.8	402.4	392.5	388.3
65°	357.5	350.5	349.1	336.5	329.5
67.5°	305.6	302.8	295.8	283.2	270.6
70°	256.6	253.7	245.3	229.9	221.5
72.5°	211.7	208.9	197.7	179.4	168.2
75°	168.2	165.4	152.8	133.2	129.0
77.5°	127.6	126.2	113.6	103.7	102.3
80°	92.5	91.1	79.9	79.9	78.5
82.5°	58.9	58.9	56.1	57.5	58.9
85°	30.8	33.6	36.4	37.9	39.3
87.5°	9.8	15.4	18.2	19.6	18.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)