

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: P296852

Luminaire Tested: **D3X-WD-31L93050-LD5-UNV-24-T1-W2A-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296852
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-31L93050-LD5-UNV-24-T1-W2A-4500K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH ROUND PERF LENS
Light Source: (504) 90 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2718.0 lumens
Efficiency: N/A
Efficacy: 123.0 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

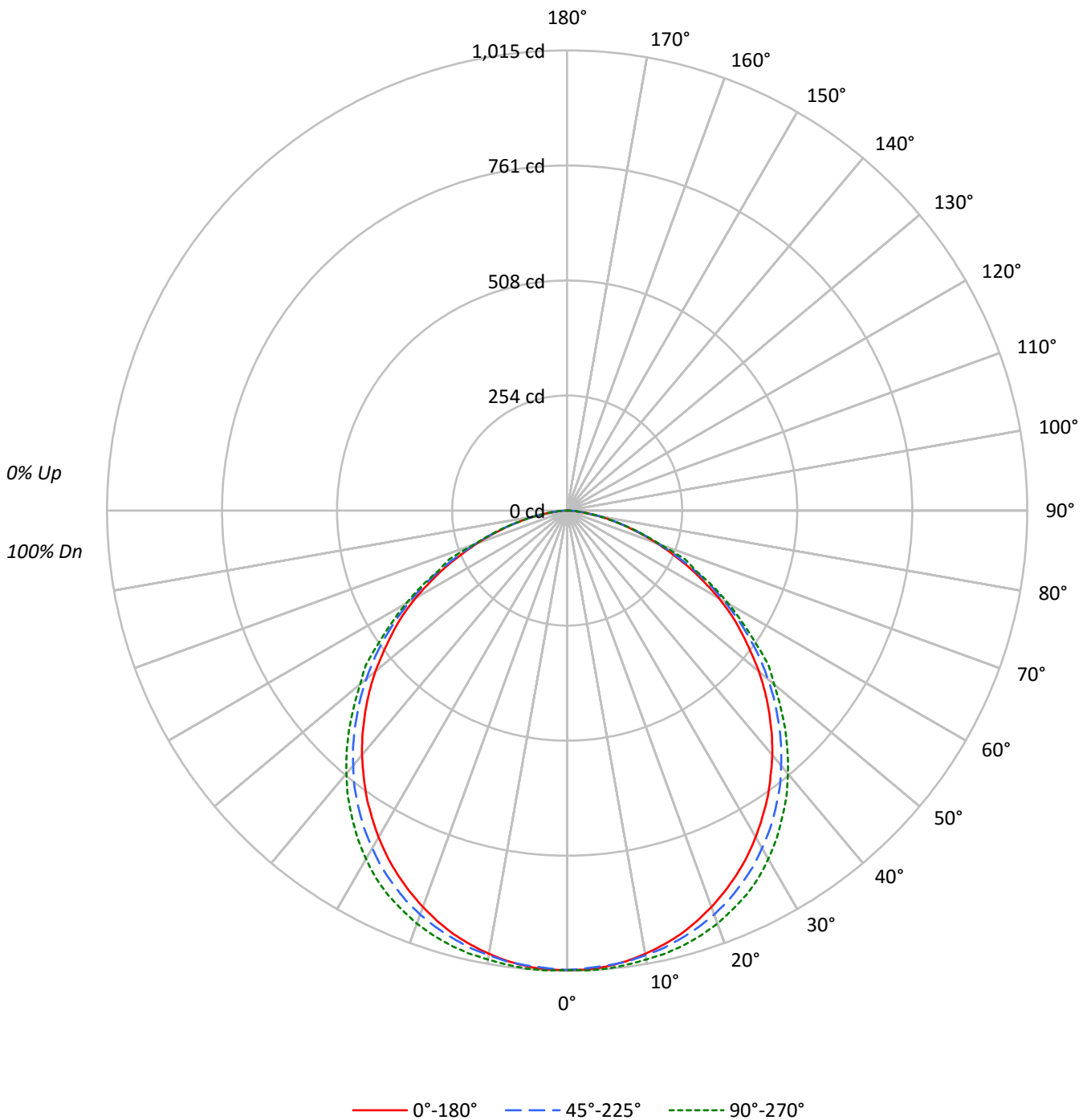
Input Watts (W): 22.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1363	1363	1363
5°	1363	1361	1370
10°	1356	1360	1374
15°	1348	1360	1383
20°	1332	1357	1388
25°	1315	1349	1388
30°	1292	1336	1379
35°	1267	1317	1358
40°	1237	1290	1331
45°	1199	1254	1293
50°	1155	1211	1247
55°	1103	1153	1187
60°	1039	1079	1105
65°	944	975	994
70°	828	848	859
75°	700	710	715
80°	559	566	552
85°	377	392	377



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.0	3.5
10°-20°	276.1	10.2
20°-30°	419.0	15.4
30°-40°	500.2	18.4
40°-50°	506.4	18.6
50°-60°	437.7	16.1
60°-70°	303.4	11.2
70°-80°	146.8	5.4
80°-90°	32.3	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°	791.2	29.1
0°-40°	1291.4	47.5
0°-60°	2235.5	82.2
0°-90°	2718.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2718.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1013	1013	1013	1013	1013	
5°	1009	1008	1007	1012	1014	96
15°	967	969	976	988	993	273
25°	886	891	909	927	935	408
35°	771	778	802	822	827	482
45°	630	639	659	676	680	486
55°	470	475	492	512	506	420
65°	296	299	306	311	312	293
75°	135	136	136	136	138	144
85°	24	26	25	24	24	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1013.3	1013.3	1013.3	1013.3	1013.3
2.5°	1013.3	1012.3	1010.3	1013.3	1015.2
5°	1009.4	1008.4	1007.4	1012.3	1014.2
7.5°	1002.5	1002.5	1003.5	1008.4	1010.3
10°	992.8	993.7	995.7	1003.5	1005.4
12.5°	981.1	983.0	987.9	996.7	1000.6
15°	967.4	969.4	976.2	987.9	992.8
17.5°	949.9	953.8	963.5	977.2	982.0
20°	930.4	935.2	947.9	963.5	969.4
22.5°	908.9	913.8	930.4	946.9	952.8
25°	885.5	891.3	908.9	927.4	935.2
27.5°	860.1	867.0	886.5	906.0	913.8
30°	831.9	839.7	860.1	880.6	887.4
32.5°	801.6	809.4	832.8	852.3	859.2
35°	771.4	778.2	801.6	822.1	827.0
37.5°	737.3	745.1	770.4	788.0	794.8
40°	704.1	711.9	734.3	751.9	757.7
42.5°	668.0	675.8	698.3	714.8	719.7
45°	630.0	638.8	659.2	675.8	679.7
47.5°	592.0	598.8	620.2	634.9	637.8
50°	552.0	558.8	578.3	592.9	595.9
52.5°	510.0	520.8	536.4	547.1	559.8
55°	470.1	474.9	491.5	512.0	506.1
57.5°	430.1	433.0	446.6	455.4	457.4
60°	386.2	390.1	400.8	405.7	410.6
62.5°	340.4	343.3	356.0	360.8	362.8
65°	296.5	299.4	306.2	311.1	312.1
67.5°	251.6	254.5	260.4	264.3	281.8
70°	210.6	212.6	215.5	223.3	218.4
72.5°	171.6	172.6	175.5	175.5	176.5
75°	134.6	135.6	136.5	135.6	137.5
77.5°	100.4	102.4	103.4	102.4	101.4
80°	72.2	74.1	73.1	71.2	71.2
82.5°	46.8	47.8	46.8	45.8	45.8
85°	24.4	26.3	25.4	24.4	24.4
87.5°	8.8	9.8	10.7	11.7	11.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)