

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: P298241

Luminaire Tested: **D3X-WG-40L93050-LD5-UNV-22-T1-W2A-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P298241
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-6)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WG-40L93050-LD5-UNV-22-T1-W2A-3000K
Description: D3X LED 2x2 TUNABLE WHITE TROFFER
WITH RECTANGULAR PERF LENS
Light Source: (252) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2923.0 lumens
Efficiency: N/A
Efficacy: 89.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.3 / 1.35
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

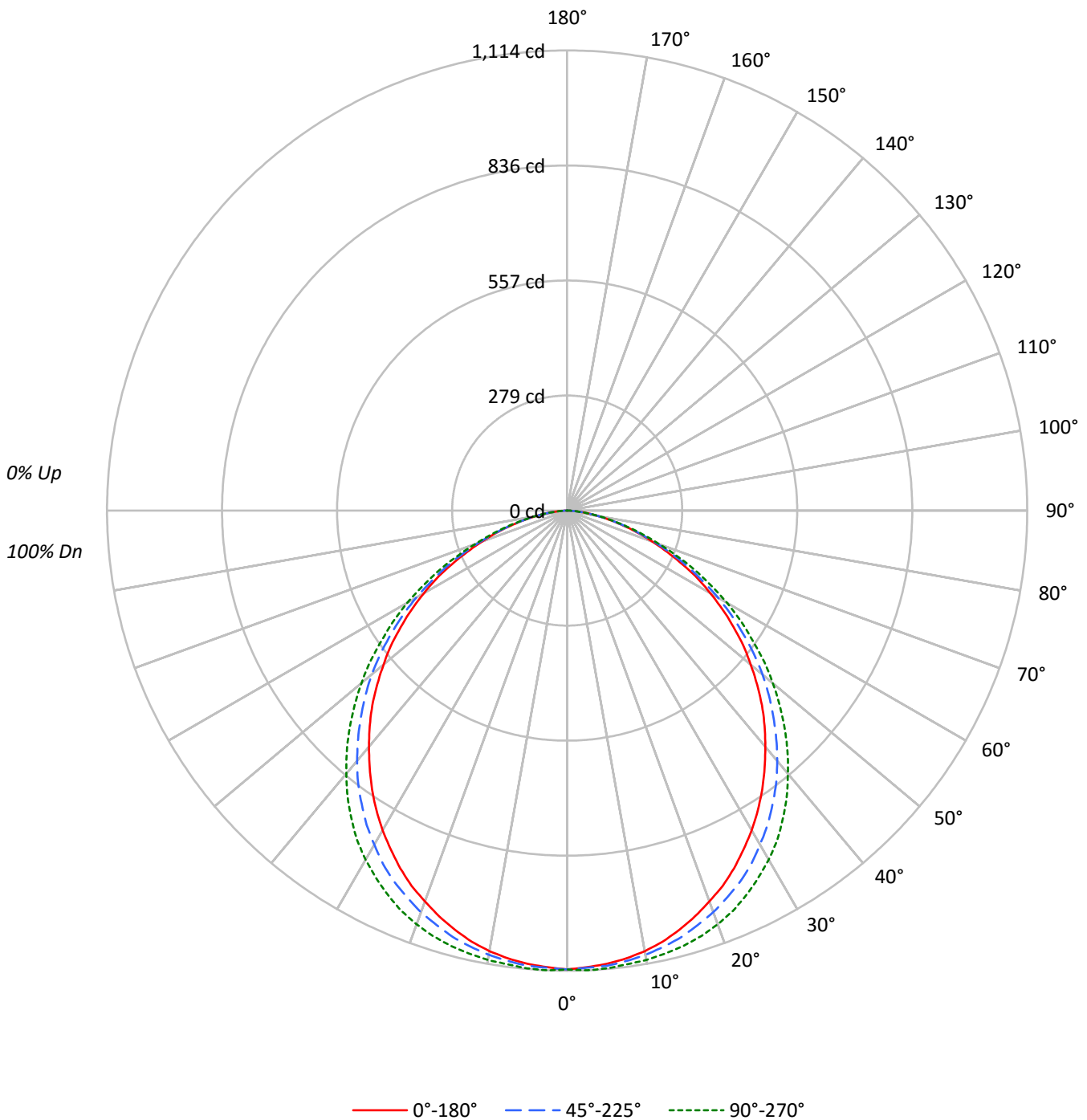
Input Watts (W): 32.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	86	80	97	90	84	79	87	82	77		83	79	76		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	82	71	63	57	68	61	56		66	60	55		64	59	54	52
5	77	65	56	49	75	64	55	49	61	54	49		59	53	48		58	52	48	45
6	71	58	50	43	69	57	49	43	56	48	43		54	47	42		52	47	42	40
7	66	53	44	38	64	52	44	38	51	43	38		49	43	38		48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34		45	39	34		44	38	34	32
9	58	44	36	31	56	44	36	31	43	36	31		42	35	30		41	35	30	28
10	54	41	33	28	53	40	33	28	40	33	28		39	32	28		38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2989	2989	2989
5°	2975	2988	3005
10°	2959	2984	3018
15°	2926	2978	3038
20°	2883	2963	3052
25°	2838	2943	3049
30°	2777	2902	3032
35°	2706	2849	2992
40°	2621	2779	2921
45°	2539	2686	2834
50°	2429	2585	2721
55°	2307	2438	2569
60°	2154	2271	2405
65°	1966	2055	2173
70°	1721	1795	1868
75°	1468	1500	1565
80°	1178	1203	1226
85°	861	815	766



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.1	3.6
10°-20°	301.8	10.3
20°-30°	456.2	15.6
30°-40°	541.9	18.5
40°-50°	544.0	18.6
50°-60°	464.7	15.9
60°-70°	320.1	11.0
70°-80°	155.2	5.3
80°-90°	34.0	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°	863.1	29.5
0°-40°	1405.0	48.1
0°-60°	2413.7	82.6
0°-90°	2923.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2923.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1111	1111	1111	1111	1111	
5°	1102	1102	1106	1109	1112	105
15°	1050	1055	1069	1083	1091	296
25°	956	963	991	1018	1027	440
35°	824	836	867	900	911	515
45°	667	676	706	735	745	514
55°	492	500	520	541	548	440
65°	309	309	323	337	341	306
75°	141	138	144	147	150	152
85°	28	28	26	25	25	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1110.8	1110.8	1110.8	1110.8	1110.8
2.5°	1106.2	1106.2	1107.7	1112.4	1113.9
5°	1101.5	1101.5	1106.2	1109.3	1112.4
7.5°	1093.7	1095.3	1099.9	1106.2	1107.7
10°	1082.9	1084.4	1092.2	1099.9	1104.6
12.5°	1068.9	1072.0	1081.3	1093.7	1098.4
15°	1050.3	1055.0	1068.9	1082.9	1090.6
17.5°	1030.1	1036.3	1051.9	1072.0	1079.8
20°	1006.9	1014.6	1034.8	1056.5	1065.8
22.5°	983.6	989.8	1013.1	1037.9	1048.8
25°	955.7	963.4	991.3	1017.7	1027.0
27.5°	924.6	935.5	965.0	992.9	1002.2
30°	893.6	902.9	933.9	965.0	975.8
32.5°	859.5	868.8	902.9	933.9	946.4
35°	823.8	836.2	867.2	899.8	910.7
37.5°	785.0	799.0	831.6	859.5	873.4
40°	746.2	758.6	791.2	820.7	831.6
42.5°	707.4	718.3	749.3	780.4	789.7
45°	667.1	676.4	705.9	735.4	744.7
47.5°	623.7	634.5	662.5	687.3	698.1
50°	580.2	591.1	617.5	640.7	650.0
52.5°	538.3	544.5	569.4	591.1	601.9
55°	491.8	499.6	519.7	541.4	547.6
57.5°	446.8	451.5	471.6	490.2	499.6
60°	400.3	403.4	422.0	435.9	446.8
62.5°	356.8	356.8	370.8	386.3	392.5
65°	308.7	308.7	322.7	336.7	341.3
67.5°	262.2	265.3	274.6	285.5	288.6
70°	218.7	218.7	228.1	235.8	237.4
72.5°	180.0	178.4	183.1	189.3	192.4
75°	141.2	138.1	144.3	147.4	150.5
77.5°	107.0	105.5	108.6	111.7	111.7
80°	76.0	74.5	77.6	77.6	79.1
82.5°	49.6	51.2	51.2	49.6	48.1
85°	27.9	27.9	26.4	24.8	24.8
87.5°	9.3	9.3	9.3	10.9	10.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)