

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: P298288

Luminaire Tested: **D3X-WG-40L92765-LD5-UNV-22-T1-W2A-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P298288
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-40L92765-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: 3061.0 lumens
Efficiency: N/A
Efficacy: 96.3 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

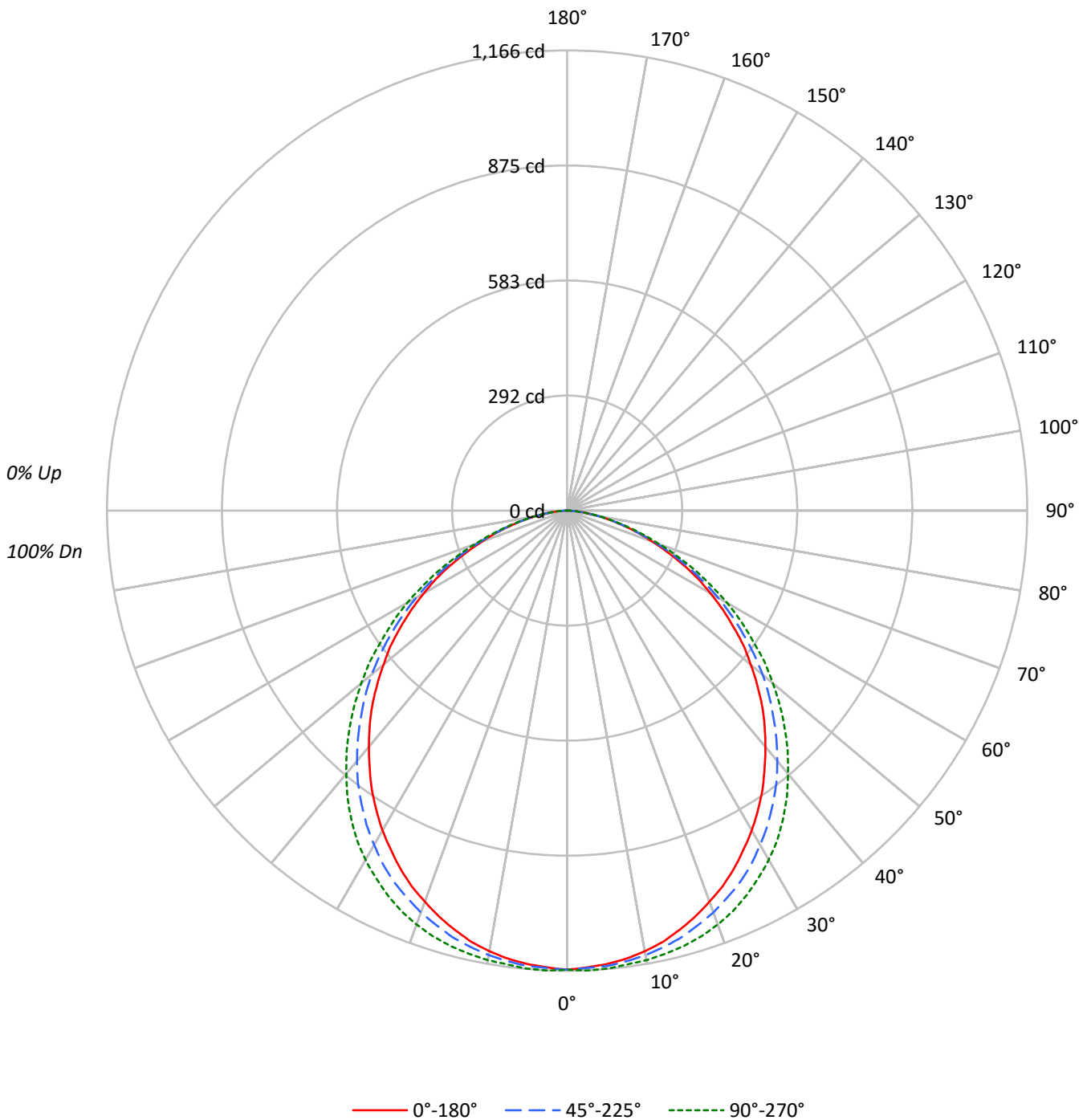
Input Watts (W): 31.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85					85			
2	100	92	86	80	97	90	84	79	87	82	77	83	79	76	80	77	74	72					72			
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	61					61			
4	84	72	64	57	82	71	63	57	68	61	56	66	60	55	64	59	54	52					52			
5	77	65	56	49	75	64	55	49	61	54	49	59	53	48	58	52	48	45					45			
6	71	58	50	43	69	57	49	43	56	48	43	54	47	42	52	47	42	40					40			
7	66	53	44	38	64	52	44	38	51	43	38	49	43	38	48	42	37	35					35			
8	62	48	40	34	60	48	40	34	46	39	34	45	39	34	44	38	34	32					32			
9	58	44	36	31	56	44	36	31	43	36	31	42	35	30	41	35	30	28					28			
10	54	41	33	28	53	40	33	28	40	33	28	39	32	28	38	32	28	26					26			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3130	3130	3130
5°	3116	3129	3147
10°	3099	3125	3161
15°	3064	3119	3182
20°	3019	3103	3196
25°	2972	3083	3193
30°	2908	3039	3175
35°	2834	2984	3133
40°	2745	2911	3059
45°	2659	2813	2968
50°	2544	2707	2850
55°	2416	2554	2691
60°	2256	2378	2518
65°	2059	2152	2276
70°	1803	1879	1956
75°	1537	1571	1639
80°	1234	1258	1285
85°	902	852	803



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.1	3.6
10°-20°	316.0	10.3
20°-30°	477.7	15.6
30°-40°	567.5	18.5
40°-50°	569.7	18.6
50°-60°	486.6	15.9
60°-70°	335.3	11.0
70°-80°	162.6	5.3
80°-90°	35.6	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°	903.9	29.5
0°-40°	1471.3	48.1
0°-60°	2527.6	82.6
0°-90°	3061.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3061.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1163	1163	1163	1163	1163	
5°	1154	1154	1158	1162	1165	109
15°	1100	1105	1119	1134	1142	310
25°	1001	1009	1038	1066	1076	461
35°	863	876	908	942	954	539
45°	699	708	739	770	780	538
55°	515	523	544	567	574	460
65°	323	323	338	352	357	320
75°	148	145	151	154	158	159
85°	29	29	28	26	26	36
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1163.3	1163.3	1163.3	1163.3	1163.3
2.5°	1158.4	1158.4	1160.0	1164.9	1166.5
5°	1153.5	1153.5	1158.4	1161.6	1164.9
7.5°	1145.4	1147.0	1151.9	1158.4	1160.0
10°	1134.0	1135.6	1143.8	1151.9	1156.8
12.5°	1119.4	1122.6	1132.4	1145.4	1150.3
15°	1099.9	1104.8	1119.4	1134.0	1142.1
17.5°	1078.8	1085.3	1101.5	1122.6	1130.8
20°	1054.4	1062.5	1083.6	1106.4	1116.1
22.5°	1030.0	1036.5	1060.9	1086.9	1098.3
25°	1000.8	1008.9	1038.2	1065.8	1075.5
27.5°	968.3	979.7	1010.5	1039.8	1049.5
30°	935.8	945.5	978.0	1010.5	1021.9
32.5°	900.1	909.8	945.5	978.0	991.0
35°	862.7	875.7	908.2	942.3	953.7
37.5°	822.1	836.7	870.8	900.1	914.7
40°	781.5	794.5	828.6	859.4	870.8
42.5°	740.8	752.2	784.7	817.2	826.9
45°	698.6	708.3	739.2	770.1	779.8
47.5°	653.1	664.5	693.7	719.7	731.1
50°	607.6	619.0	646.6	671.0	680.7
52.5°	563.8	570.3	596.2	619.0	630.4
55°	515.0	523.1	544.3	567.0	573.5
57.5°	467.9	472.8	493.9	513.4	523.1
60°	419.2	422.4	441.9	456.5	467.9
62.5°	373.7	373.7	388.3	404.5	411.0
65°	323.3	323.3	337.9	352.5	357.4
67.5°	274.6	277.8	287.6	298.9	302.2
70°	229.1	229.1	238.8	246.9	248.6
72.5°	188.5	186.8	191.7	198.2	201.5
75°	147.8	144.6	151.1	154.3	157.6
77.5°	112.1	110.5	113.7	117.0	117.0
80°	79.6	78.0	81.2	81.2	82.9
82.5°	52.0	53.6	53.6	52.0	50.4
85°	29.2	29.2	27.6	26.0	26.0
87.5°	9.7	9.7	9.7	11.4	11.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)