

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: P297986

Luminaire Tested: **D3X-WD-35L83050-LD5-UNV-22-T1-W2A-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297986
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-5)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WD-35L83050-LD5-UNV-22-T1-W2A-4000K
Description: D3X LED 2x2 TUNABLE WHITE TROFFER
WITH ROUND PERF LENS
Light Source: (252) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3439.0 lumens
Efficiency: N/A
Efficacy: 120.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.32 / 1.37
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

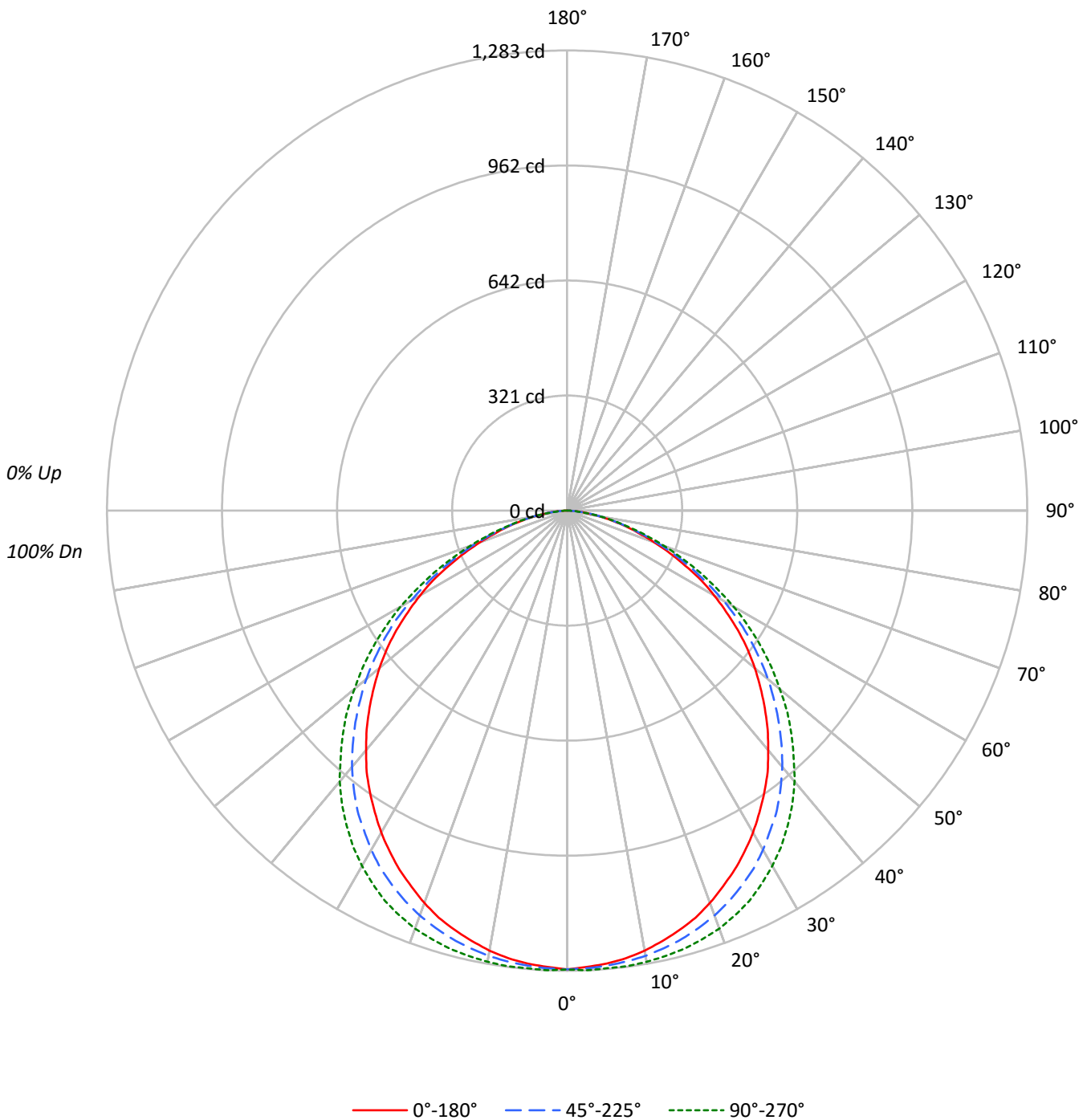
Input Watts (W): 28.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	81	77	83	79	75	80	77	74	72
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63	61
4	84	72	63	57	81	71	63	57	68	61	56	66	60	55	64	59	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	31	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°	3442	3442	3442
5°	3425	3440	3460
10°	3404	3445	3490
15°	3373	3445	3522
20°	3334	3440	3552
25°	3281	3424	3567
30°	3221	3393	3555
35°	3150	3351	3521
40°	3063	3277	3466
45°	2966	3177	3367
50°	2860	3061	3239
55°	2727	2909	3092
60°	2551	2710	2889
65°	2310	2451	2605
70°	2039	2141	2257
75°	1751	1790	1867
80°	1406	1435	1463
85°	1028	914	914



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.2	3.5
10°-20°	349.2	10.2
20°-30°	531.1	15.4
30°-40°	635.4	18.5
40°-50°	642.4	18.7
50°-60°	552.8	16.1
60°-70°	381.7	11.1
70°-80°	185.1	5.4
80°-90°	40.1	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°	1001.5	29.1
0°-40°	1636.9	47.6
0°-60°	2832.1	82.4
0°-90°	3439.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3439.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1279	1279	1279	1279	1279	
5°	1268	1270	1274	1279	1281	120
15°	1211	1218	1236	1255	1264	341
25°	1105	1118	1153	1188	1201	509
35°	959	976	1020	1057	1072	599
45°	779	794	835	870	885	601
55°	581	590	620	648	659	518
65°	363	368	385	402	409	361
75°	168	165	172	178	180	179
85°	33	33	30	30	30	41
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1279.1	1279.1	1279.1	1279.1	1279.1
2.5°	1273.6	1273.6	1277.3	1281.0	1282.8
5°	1268.0	1269.9	1273.6	1279.1	1281.0
7.5°	1258.7	1260.6	1268.0	1277.3	1281.0
10°	1245.8	1249.5	1260.6	1271.7	1277.3
12.5°	1229.1	1236.5	1249.5	1264.3	1271.7
15°	1210.6	1218.0	1236.5	1255.0	1264.3
17.5°	1190.3	1197.7	1219.9	1243.9	1253.2
20°	1164.3	1175.4	1201.4	1229.1	1240.2
22.5°	1134.7	1149.5	1179.1	1208.8	1221.7
25°	1105.1	1118.1	1153.2	1188.4	1201.4
27.5°	1071.8	1086.6	1125.5	1160.6	1173.6
30°	1036.6	1051.4	1092.1	1131.0	1144.0
32.5°	997.7	1016.3	1055.1	1095.8	1110.7
35°	958.9	975.5	1020.0	1057.0	1071.8
37.5°	918.1	933.0	977.4	1016.3	1031.1
40°	871.9	888.5	933.0	971.8	986.6
42.5°	827.4	844.1	884.8	921.8	934.8
45°	779.3	794.1	834.8	870.0	884.8
47.5°	731.2	747.8	783.0	818.2	833.0
50°	683.1	696.0	731.2	764.5	773.8
52.5°	633.1	644.2	675.6	705.3	718.2
55°	581.2	590.5	620.1	647.9	659.0
57.5°	525.7	536.8	564.6	584.9	597.9
60°	473.9	479.4	503.5	523.9	536.8
62.5°	422.0	423.9	442.4	462.8	470.2
65°	362.8	368.4	385.0	401.7	409.1
67.5°	309.1	314.7	327.6	340.6	346.2
70°	259.2	259.2	272.1	281.4	286.9
72.5°	209.2	211.0	220.3	225.8	231.4
75°	168.4	164.7	172.2	177.7	179.6
77.5°	125.9	124.0	129.6	131.4	135.1
80°	90.7	90.7	92.6	94.4	94.4
82.5°	59.2	59.2	61.1	57.4	55.5
85°	33.3	33.3	29.6	29.6	29.6
87.5°	11.1	11.1	11.1	13.0	11.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)