

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: P298030

Luminaire Tested: **D3X-WD-35L82765-LD5-UNV-22-T1-W2A-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P298030
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-35L82765-LD5-UNV-22-T1-W2A-4500K
Description: D3X LED 2x2 TUNABLE WHITE TROFFER
WITH ROUND PERF LENS
Light Source: (252) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3327.0 lumens
Efficiency: N/A
Efficacy: 116.7 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

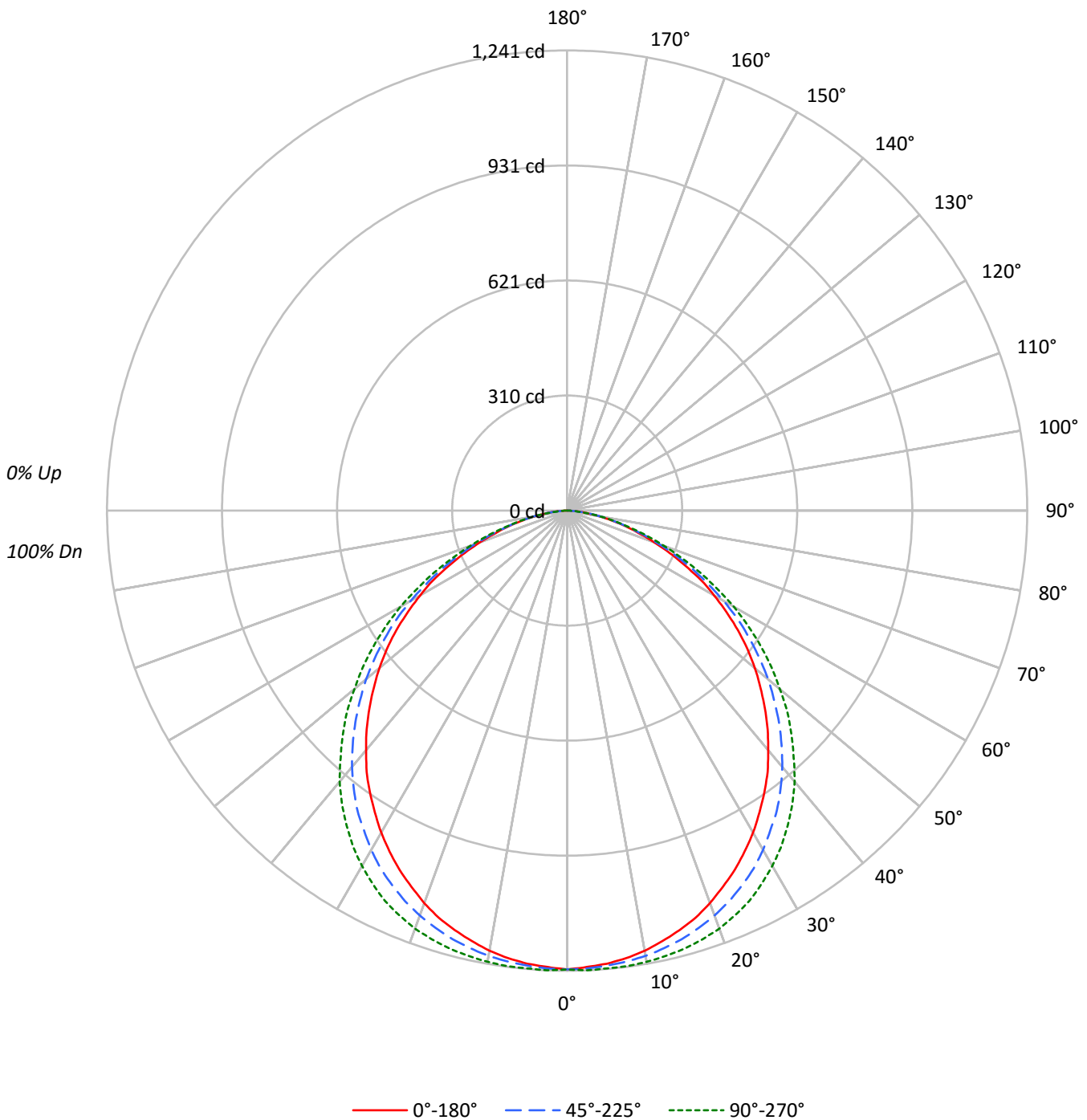
Input Watts (W): 28.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3330	3330	3330
5°	3314	3328	3347
10°	3293	3332	3377
15°	3263	3333	3407
20°	3226	3328	3436
25°	3174	3313	3451
30°	3116	3283	3439
35°	3047	3241	3406
40°	2963	3171	3353
45°	2869	3074	3258
50°	2766	2961	3134
55°	2638	2814	2991
60°	2467	2622	2795
65°	2235	2372	2520
70°	1972	2071	2184
75°	1695	1731	1806
80°	1359	1387	1415
85°	994	886	886



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.3	3.5
10°-20°	337.8	10.2
20°-30°	513.8	15.4
30°-40°	614.7	18.5
40°-50°	621.5	18.7
50°-60°	534.8	16.1
60°-70°	369.2	11.1
70°-80°	179.0	5.4
80°-90°	38.8	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°	968.9	29.1
0°-40°	1583.6	47.6
0°-60°	2739.9	82.4
0°-90°	3327.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3327.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1237	1237	1237	1237	1237	
5°	1227	1228	1232	1237	1239	116
15°	1171	1178	1196	1214	1223	330
25°	1069	1082	1116	1150	1162	492
35°	928	944	987	1023	1037	580
45°	754	768	808	842	856	582
55°	562	571	600	627	638	501
65°	351	356	372	389	396	349
75°	163	159	166	172	174	173
85°	32	32	29	29	29	39
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1237.4	1237.4	1237.4	1237.4	1237.4
2.5°	1232.1	1232.1	1235.7	1239.2	1241.0
5°	1226.7	1228.5	1232.1	1237.4	1239.2
7.5°	1217.7	1219.5	1226.7	1235.7	1239.2
10°	1205.2	1208.8	1219.5	1230.3	1235.7
12.5°	1189.1	1196.3	1208.8	1223.1	1230.3
15°	1171.2	1178.4	1196.3	1214.2	1223.1
17.5°	1151.5	1158.7	1180.1	1203.4	1212.4
20°	1126.4	1137.2	1162.2	1189.1	1199.8
22.5°	1097.8	1112.1	1140.7	1169.4	1181.9
25°	1069.1	1081.6	1115.7	1149.7	1162.2
27.5°	1036.9	1051.2	1088.8	1122.8	1135.4
30°	1002.9	1017.2	1056.6	1094.2	1106.7
32.5°	965.2	983.2	1020.8	1060.2	1074.5
35°	927.6	943.8	986.7	1022.6	1036.9
37.5°	888.2	902.6	945.5	983.2	997.5
40°	843.5	859.6	902.6	940.2	954.5
42.5°	800.5	816.6	856.0	891.8	904.4
45°	753.9	768.3	807.7	841.7	856.0
47.5°	707.4	723.5	757.5	791.5	805.9
50°	660.8	673.3	707.4	739.6	748.6
52.5°	612.5	623.2	653.6	682.3	694.8
55°	562.3	571.3	599.9	626.8	637.5
57.5°	508.6	519.3	546.2	565.9	578.4
60°	458.4	463.8	487.1	506.8	519.3
62.5°	408.3	410.1	428.0	447.7	454.9
65°	351.0	356.4	372.5	388.6	395.8
67.5°	299.1	304.4	317.0	329.5	334.9
70°	250.7	250.7	263.2	272.2	277.6
72.5°	202.4	204.2	213.1	218.5	223.9
75°	163.0	159.4	166.5	171.9	173.7
77.5°	121.8	120.0	125.4	127.1	130.7
80°	87.7	87.7	89.5	91.3	91.3
82.5°	57.3	57.3	59.1	55.5	53.7
85°	32.2	32.2	28.7	28.7	28.7
87.5°	10.7	10.7	10.7	12.5	10.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)