

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: P298187

Luminaire Tested: **D3X-WG-31L82765-LD5-UNV-22-T1-W2A-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P298187
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-31L82765-LD5-UNV-22-T1-W2A-3500K
Description: D3X LED 2x2 TUNABLE WHITE TROFFER
WITH RECTANGULAR PERF LENS
Light Source: (252) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2882.0 lumens
Efficiency: N/A
Efficacy: 117.2 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

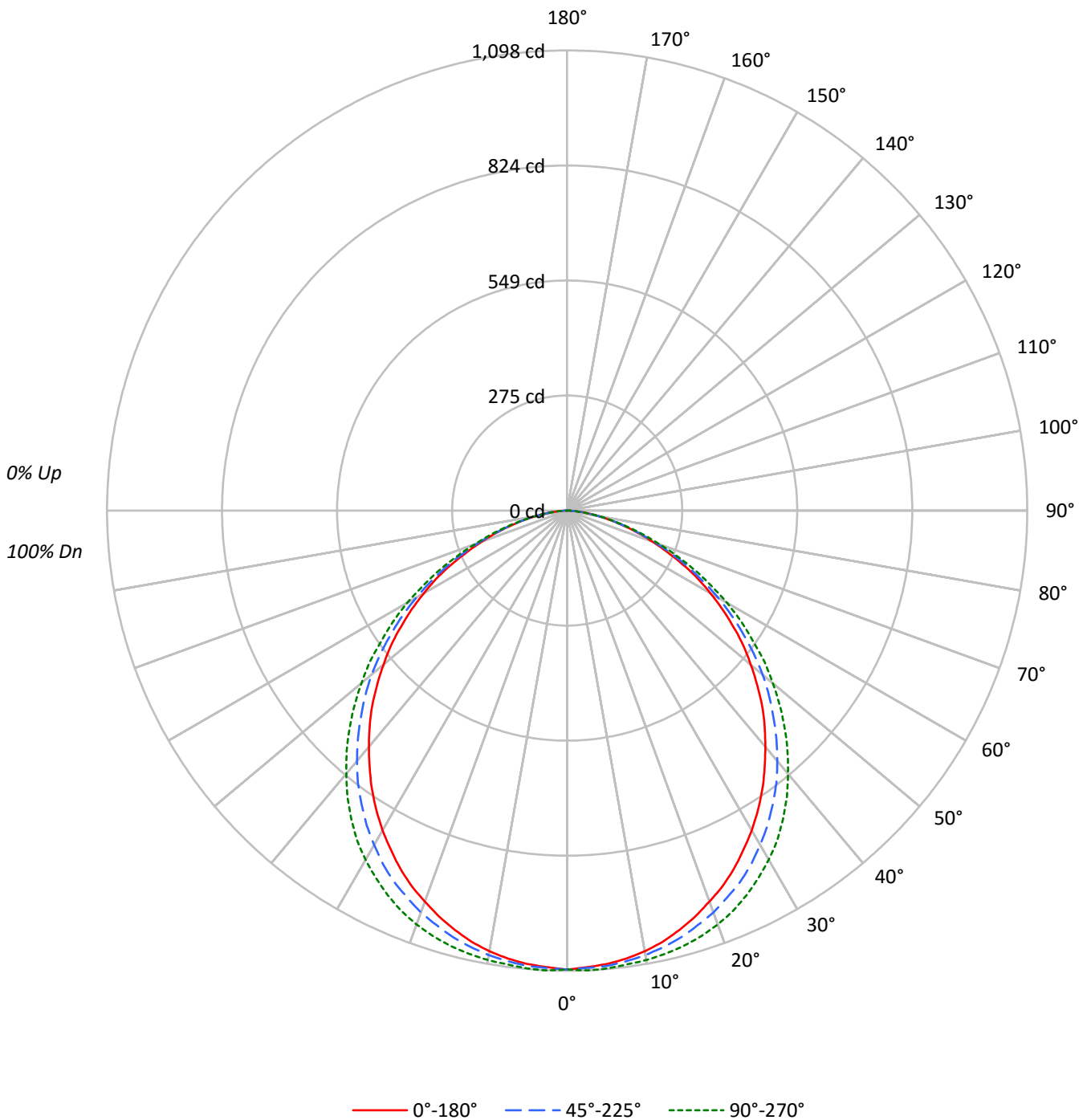
Input Watts (W): 24.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2947	2947	2947
5°	2934	2946	2963
10°	2917	2943	2976
15°	2885	2936	2996
20°	2843	2922	3009
25°	2798	2902	3007
30°	2738	2861	2990
35°	2668	2809	2950
40°	2585	2740	2880
45°	2503	2649	2794
50°	2395	2549	2683
55°	2275	2404	2533
60°	2124	2239	2371
65°	1938	2026	2143
70°	1697	1769	1841
75°	1447	1480	1543
80°	1162	1185	1209
85°	849	803	756



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.7	3.6
10°-20°	297.5	10.3
20°-30°	449.8	15.6
30°-40°	534.3	18.5
40°-50°	536.4	18.6
50°-60°	458.1	15.9
60°-70°	315.7	11.0
70°-80°	153.0	5.3
80°-90°	33.5	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°	851.0	29.5
0°-40°	1385.3	48.1
0°-60°	2379.8	82.6
0°-90°	2882.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2882.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1095	1095	1095	1095	1095	
5°	1086	1086	1091	1094	1097	103
15°	1036	1040	1054	1068	1075	292
25°	942	950	977	1003	1013	434
35°	812	824	855	887	898	507
45°	658	667	696	725	734	506
55°	485	492	512	534	540	433
65°	304	304	318	332	336	302
75°	139	136	142	145	148	150
85°	28	28	26	24	24	33
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1095.2	1095.2	1095.2	1095.2	1095.2
2.5°	1090.6	1090.6	1092.2	1096.8	1098.3
5°	1086.0	1086.0	1090.6	1093.7	1096.8
7.5°	1078.4	1079.9	1084.5	1090.6	1092.2
10°	1067.7	1069.2	1076.9	1084.5	1089.1
12.5°	1053.9	1057.0	1066.2	1078.4	1083.0
15°	1035.6	1040.2	1053.9	1067.7	1075.3
17.5°	1015.7	1021.8	1037.1	1057.0	1064.6
20°	992.7	1000.4	1020.3	1041.7	1050.9
22.5°	969.8	975.9	998.9	1023.3	1034.0
25°	942.3	949.9	977.4	1003.4	1012.6
27.5°	911.7	922.4	951.4	979.0	988.2
30°	881.1	890.3	920.8	951.4	962.1
32.5°	847.4	856.6	890.3	920.8	933.1
35°	812.2	824.5	855.1	887.2	897.9
37.5°	774.0	787.8	819.9	847.4	861.2
40°	735.8	748.0	780.1	809.2	819.9
42.5°	697.5	708.2	738.8	769.4	778.6
45°	657.7	666.9	696.0	725.1	734.2
47.5°	614.9	625.6	653.2	677.6	688.3
50°	572.1	582.8	608.8	631.7	640.9
52.5°	530.8	536.9	561.4	582.8	593.5
55°	484.9	492.5	512.4	533.8	540.0
57.5°	440.5	445.1	465.0	483.4	492.5
60°	394.6	397.7	416.1	429.8	440.5
62.5°	351.8	351.8	365.6	380.9	387.0
65°	304.4	304.4	318.2	331.9	336.5
67.5°	258.5	261.6	270.7	281.5	284.5
70°	215.7	215.7	224.9	232.5	234.0
72.5°	177.4	175.9	180.5	186.6	189.7
75°	139.2	136.1	142.3	145.3	148.4
77.5°	105.5	104.0	107.1	110.1	110.1
80°	75.0	73.4	76.5	76.5	78.0
82.5°	48.9	50.5	50.5	48.9	47.4
85°	27.5	27.5	26.0	24.5	24.5
87.5°	9.2	9.2	9.2	10.7	10.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)