

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: P298153

Luminaire Tested: **D3X-WG-35L83050-LD5-UNV-22-T1-W2A-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P298153
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-35L83050-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: 3321.0 lumens
Efficiency: N/A
Efficacy: 119.0 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

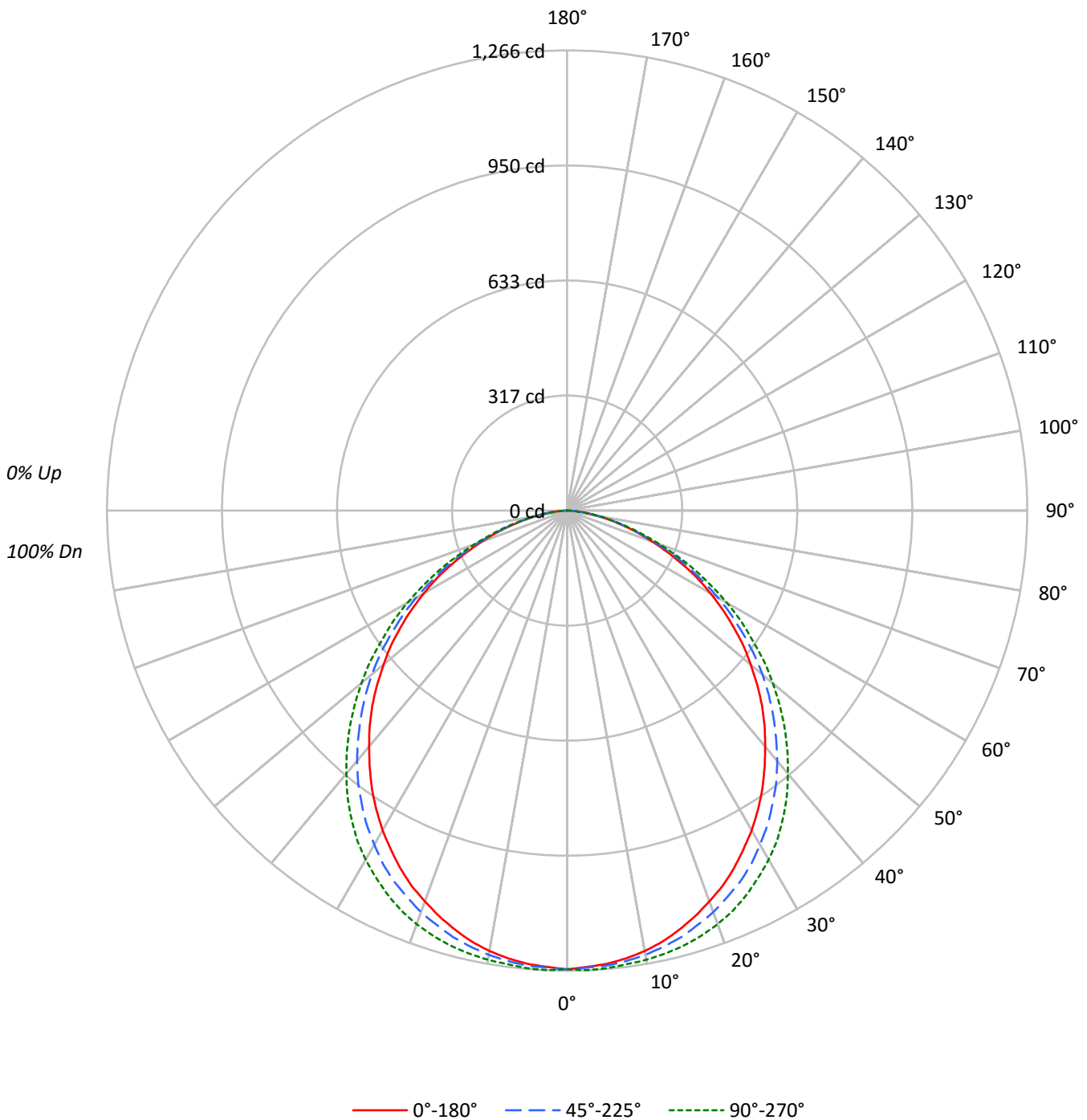
Input Watts (W): 27.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3396	3396	3396
5°	3381	3395	3414
10°	3362	3391	3429
15°	3324	3383	3452
20°	3276	3367	3468
25°	3224	3344	3465
30°	3155	3297	3445
35°	3075	3237	3399
40°	2978	3158	3319
45°	2884	3052	3220
50°	2760	2937	3092
55°	2622	2770	2919
60°	2448	2580	2732
65°	2234	2334	2469
70°	1955	2039	2122
75°	1668	1704	1778
80°	1339	1365	1393
85°	979	926	871



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.5	3.6
10°-20°	342.9	10.3
20°-30°	518.3	15.6
30°-40°	615.7	18.5
40°-50°	618.1	18.6
50°-60°	527.9	15.9
60°-70°	363.7	11.0
70°-80°	176.4	5.3
80°-90°	38.6	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°	980.6	29.5
0°-40°	1596.3	48.1
0°-60°	2742.3	82.6
0°-90°	3321.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3321.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1262	1262	1262	1262	1262	
5°	1252	1252	1257	1260	1264	119
15°	1193	1199	1214	1230	1239	336
25°	1086	1095	1126	1156	1167	500
35°	936	950	985	1022	1035	585
45°	758	768	802	836	846	583
55°	559	568	590	615	622	500
65°	351	351	367	382	388	348
75°	160	157	164	168	171	172
85°	32	32	30	28	28	39
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1262.1	1262.1	1262.1	1262.1	1262.1
2.5°	1256.8	1256.8	1258.5	1263.8	1265.6
5°	1251.5	1251.5	1256.8	1260.3	1263.8
7.5°	1242.7	1244.4	1249.7	1256.8	1258.5
10°	1230.3	1232.1	1240.9	1249.7	1255.0
12.5°	1214.5	1218.0	1228.6	1242.7	1248.0
15°	1193.3	1198.6	1214.5	1230.3	1239.1
17.5°	1170.4	1177.4	1195.1	1218.0	1226.8
20°	1144.0	1152.8	1175.7	1200.4	1210.9
22.5°	1117.5	1124.6	1151.0	1179.2	1191.6
25°	1085.8	1094.6	1126.3	1156.3	1166.9
27.5°	1050.5	1062.9	1096.4	1128.1	1138.7
30°	1015.3	1025.9	1061.1	1096.4	1108.7
32.5°	976.5	987.1	1025.9	1061.1	1075.2
35°	936.0	950.1	985.3	1022.3	1034.7
37.5°	891.9	907.8	944.8	976.5	992.4
40°	847.8	861.9	899.0	932.4	944.8
42.5°	803.8	816.1	851.4	886.6	897.2
45°	757.9	768.5	802.0	835.5	846.1
47.5°	708.6	720.9	752.7	780.9	793.2
50°	659.2	671.6	701.5	728.0	738.5
52.5°	611.6	618.7	646.9	671.6	683.9
55°	558.8	567.6	590.5	615.2	622.2
57.5°	507.6	512.9	535.8	557.0	567.6
60°	454.8	458.3	479.4	495.3	507.6
62.5°	405.4	405.4	421.3	438.9	446.0
65°	350.8	350.8	366.6	382.5	387.8
67.5°	297.9	301.4	312.0	324.3	327.9
70°	248.5	248.5	259.1	267.9	269.7
72.5°	204.5	202.7	208.0	215.0	218.6
75°	160.4	156.9	163.9	167.5	171.0
77.5°	121.6	119.9	123.4	126.9	126.9
80°	86.4	84.6	88.1	88.1	89.9
82.5°	56.4	58.2	58.2	56.4	54.6
85°	31.7	31.7	30.0	28.2	28.2
87.5°	10.6	10.6	10.6	12.3	12.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)