

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: P297840

Luminaire Tested: **D3X-WO-31L83050-LD5-UNV-14-T1-W2A-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297840
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-1)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WO-31L83050-LD5-UNV-14-T1-W2A-3500K
Description: D3X LED 1x4 TUNABLE WHITE TROFFER
WITH OPAL LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3120.0 lumens
Efficiency: N/A
Efficacy: 110.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.24 / 1.33
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

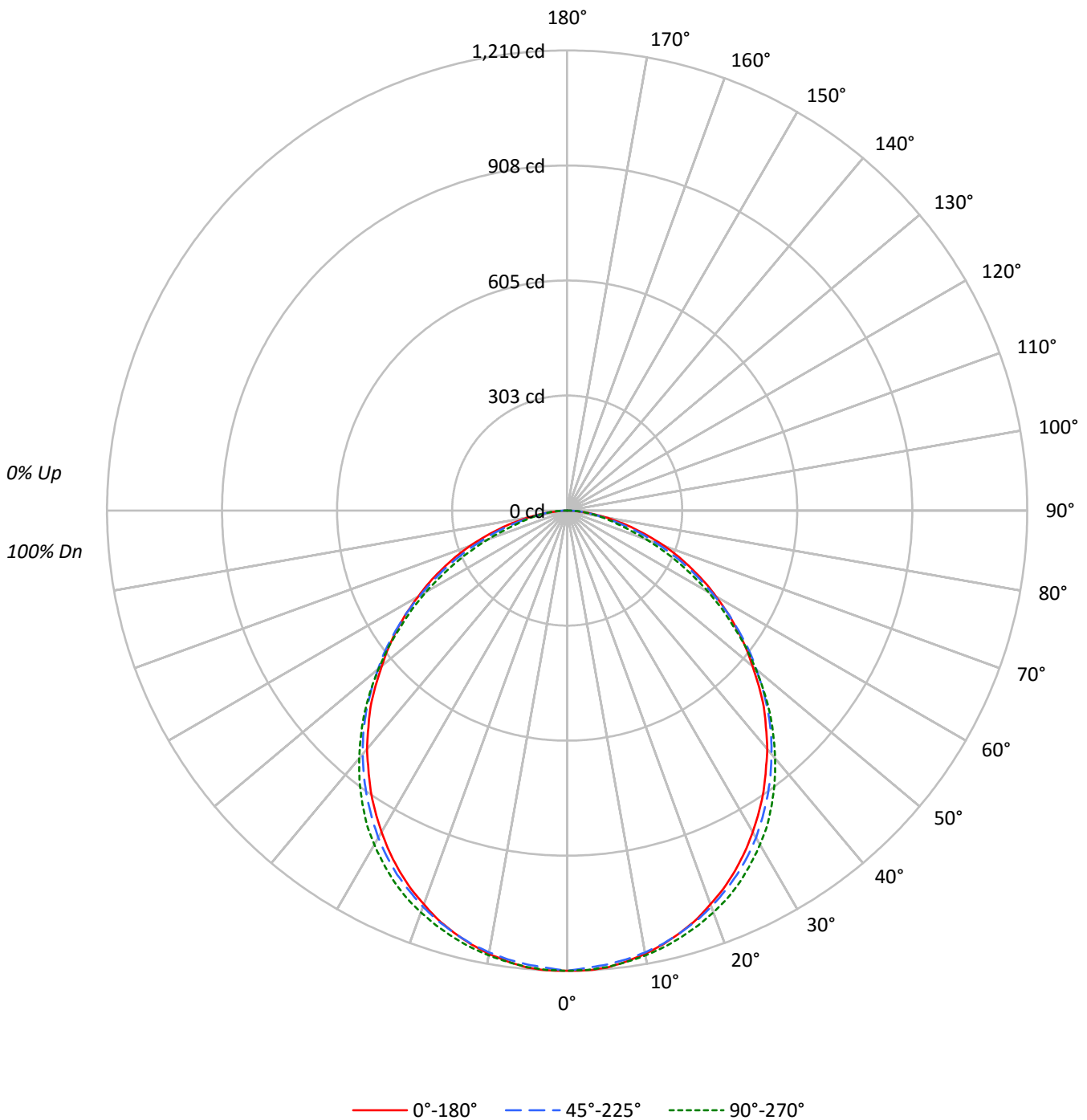
Input Watts (W): 28.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	95	98	95	92	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	86	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	64	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52
5	77	65	56	49	75	63	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	46	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	29
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3256	3256	3256
5°	3258	3237	3254
10°	3234	3224	3245
15°	3202	3202	3235
20°	3155	3174	3219
25°	3102	3138	3197
30°	3033	3086	3152
35°	2959	3015	3085
40°	2876	2936	2987
45°	2783	2844	2869
50°	2663	2719	2707
55°	2563	2581	2513
60°	2434	2399	2306
65°	2299	2206	2055
70°	2133	1956	1738
75°	1897	1678	1430
80°	1578	1373	1333
85°	1142	1226	1226



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.2	3.7
10°-20°	325.3	10.4
20°-30°	487.6	15.6
30°-40°	574.4	18.4
40°-50°	572.9	18.4
50°-60°	487.3	15.6
60°-70°	340.1	10.9
70°-80°	172.9	5.5
80°-90°	45.2	1.4
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°	927.1	29.7
0°-40°	1501.5	48.1
0°-60°	2561.8	82.1
0°-90°	3120.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3120.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1210	1210	1210	1210	1210	
5°	1206	1204	1198	1205	1205	114
15°	1149	1149	1149	1160	1161	324
25°	1045	1046	1057	1073	1077	481
35°	901	902	918	936	939	563
45°	731	734	747	752	754	563
55°	546	546	550	542	536	488
65°	361	356	346	328	323	358
75°	182	176	161	142	138	194
85°	37	38	40	40	40	46
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1210.1	1210.1	1210.1	1210.1	1210.1
2.5°	1210.1	1208.8	1203.5	1208.8	1208.8
5°	1206.2	1203.5	1198.2	1204.8	1204.8
7.5°	1195.6	1194.3	1190.3	1196.9	1196.9
10°	1183.7	1182.4	1179.7	1187.7	1187.7
12.5°	1167.8	1167.8	1166.5	1174.4	1175.8
15°	1149.3	1149.3	1149.3	1159.9	1161.2
17.5°	1128.1	1126.8	1130.8	1142.7	1144.0
20°	1101.7	1103.0	1108.3	1121.5	1124.2
22.5°	1075.2	1076.6	1083.2	1099.0	1103.0
25°	1044.8	1046.1	1056.7	1072.6	1076.6
27.5°	1011.8	1014.4	1026.3	1043.5	1046.1
30°	976.0	978.7	993.2	1010.4	1014.4
32.5°	939.0	943.0	956.2	974.7	980.0
35°	900.7	902.0	917.9	936.4	939.0
37.5°	858.3	862.3	878.2	894.0	896.7
40°	818.7	821.3	835.9	849.1	850.4
42.5°	773.7	777.7	793.5	802.8	802.8
45°	731.4	734.0	747.2	752.5	753.9
47.5°	683.8	686.4	698.3	701.0	701.0
50°	636.1	642.8	649.4	649.4	646.7
52.5°	592.5	593.8	601.8	596.5	593.8
55°	546.2	546.2	550.2	542.2	535.6
57.5°	499.9	499.9	499.9	489.3	484.1
60°	452.3	451.0	445.7	432.5	428.5
62.5°	407.3	403.4	395.4	382.2	374.3
65°	361.1	355.8	346.5	328.0	322.7
67.5°	317.4	308.2	297.6	280.4	271.1
70°	271.1	263.2	248.6	228.8	220.9
72.5°	226.2	218.2	206.3	186.5	174.6
75°	182.5	175.9	161.4	141.5	137.5
77.5°	140.2	136.2	121.7	112.4	111.1
80°	101.8	100.5	88.6	86.0	86.0
82.5°	67.5	66.1	62.2	62.2	60.8
85°	37.0	38.4	39.7	39.7	39.7
87.5°	13.2	15.9	18.5	18.5	18.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)