

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: P297841

Luminaire Tested: **D3X-WO-31L83050-LD5-UNV-14-T1-W2A-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297841
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-4000K
Description: D3X LED 1x4 TUNABLE WHITE TROFFER
WITH OPAL LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3276.0 lumens
Efficiency: N/A
Efficacy: 113.4 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

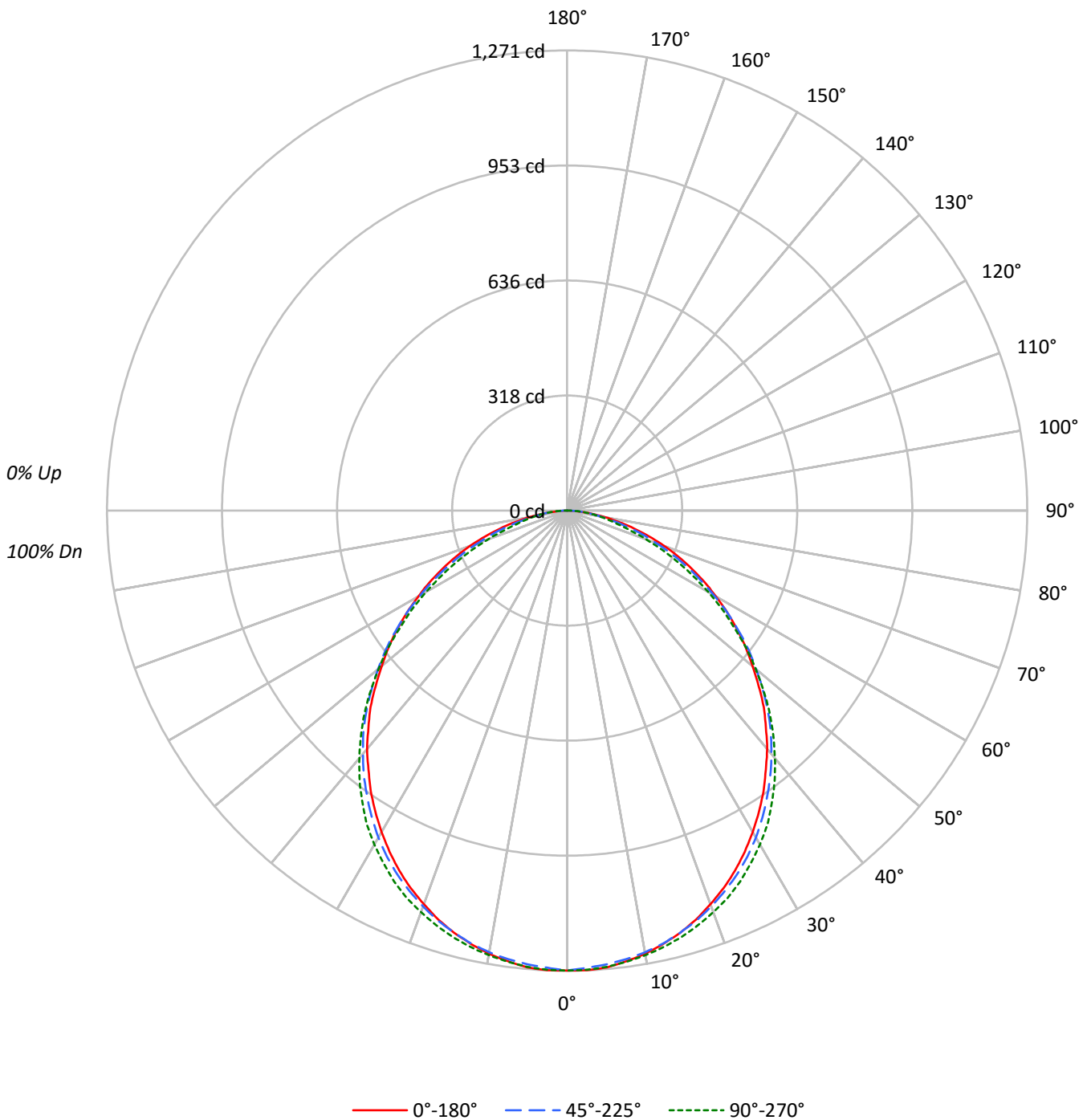
Input Watts (W): 28.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	109	105	101	97	107	103	99	95	98	95	92	94	92	90	91	89	87	85					85			
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	72					72			
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63	61					61			
4	84	72	64	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52					52			
5	77	65	56	49	75	63	55	49	61	54	49	59	53	48	58	52	48	45					45			
6	71	58	50	43	69	57	49	43	56	48	43	54	47	42	52	46	42	40					40			
7	66	53	44	38	64	52	44	38	51	43	38	49	43	38	48	42	37	35					35			
8	62	48	40	34	60	48	40	34	46	39	34	45	39	34	44	38	34	32					32			
9	58	44	36	31	56	44	36	31	43	36	31	42	35	31	41	35	30	29					29			
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28	26					26			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3419	3419	3419
5°	3421	3398	3417
10°	3396	3385	3407
15°	3362	3362	3397
20°	3313	3332	3380
25°	3257	3295	3356
30°	3184	3241	3310
35°	3107	3166	3239
40°	3020	3083	3137
45°	2922	2986	3013
50°	2797	2854	2843
55°	2691	2710	2639
60°	2556	2519	2421
65°	2414	2316	2157
70°	2240	2054	1825
75°	1992	1761	1501
80°	1657	1441	1399
85°	1201	1288	1288



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.9	3.7
10°-20°	341.6	10.4
20°-30°	511.9	15.6
30°-40°	603.2	18.4
40°-50°	601.6	18.4
50°-60°	511.7	15.6
60°-70°	357.1	10.9
70°-80°	181.5	5.5
80°-90°	47.4	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°	973.5	29.7
0°-40°	1576.6	48.1
0°-60°	2689.9	82.1
0°-90°	3276.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3276.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1271	1271	1271	1271	1271	
5°	1266	1264	1258	1265	1265	120
15°	1207	1207	1207	1218	1219	340
25°	1097	1098	1110	1126	1130	505
35°	946	947	964	983	986	591
45°	768	771	785	790	792	591
55°	574	574	578	569	562	512
65°	379	374	364	344	339	376
75°	192	185	169	149	144	204
85°	39	40	42	42	42	48
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1270.6	1270.6	1270.6	1270.6	1270.6
2.5°	1270.6	1269.3	1263.7	1269.3	1269.3
5°	1266.5	1263.7	1258.1	1265.1	1265.1
7.5°	1255.4	1254.0	1249.8	1256.8	1256.8
10°	1242.9	1241.5	1238.7	1247.0	1247.0
12.5°	1226.2	1226.2	1224.8	1233.2	1234.5
15°	1206.8	1206.8	1206.8	1217.9	1219.3
17.5°	1184.5	1183.2	1187.3	1199.8	1201.2
20°	1156.8	1158.2	1163.7	1177.6	1180.4
22.5°	1129.0	1130.4	1137.3	1154.0	1158.2
25°	1097.1	1098.4	1109.6	1126.2	1130.4
27.5°	1062.3	1065.1	1077.6	1095.7	1098.4
30°	1024.8	1027.6	1042.9	1061.0	1065.1
32.5°	986.0	990.1	1004.0	1023.5	1029.0
35°	945.7	947.1	963.7	983.2	986.0
37.5°	901.3	905.4	922.1	938.8	941.5
40°	859.6	862.4	877.6	891.5	892.9
42.5°	812.4	816.5	833.2	842.9	842.9
45°	767.9	770.7	784.6	790.2	791.6
47.5°	718.0	720.7	733.2	736.0	736.0
50°	668.0	674.9	681.8	681.8	679.1
52.5°	622.1	623.5	631.9	626.3	623.5
55°	573.5	573.5	577.7	569.4	562.4
57.5°	524.9	524.9	524.9	513.8	508.3
60°	474.9	473.5	468.0	454.1	449.9
62.5°	427.7	423.5	415.2	401.3	393.0
65°	379.1	373.6	363.8	344.4	338.8
67.5°	333.3	323.6	312.5	294.4	284.7
70°	284.7	276.3	261.1	240.2	231.9
72.5°	237.5	229.1	216.6	195.8	183.3
75°	191.6	184.7	169.4	148.6	144.4
77.5°	147.2	143.0	127.8	118.0	116.6
80°	106.9	105.5	93.0	90.3	90.3
82.5°	70.8	69.4	65.3	65.3	63.9
85°	38.9	40.3	41.7	41.7	41.7
87.5°	13.9	16.7	19.4	19.4	19.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)