

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: P297700

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297700
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-3)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WG-31L83050-LD5-UNV-14-T1-W2A-3500K
Description: D3X LED 1x4 TUNABLE WHITE TROFFER
WITH RECTANGULAR PERF LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2957.0 lumens
Efficiency: N/A
Efficacy: 104.5 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.29 / 1.36
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

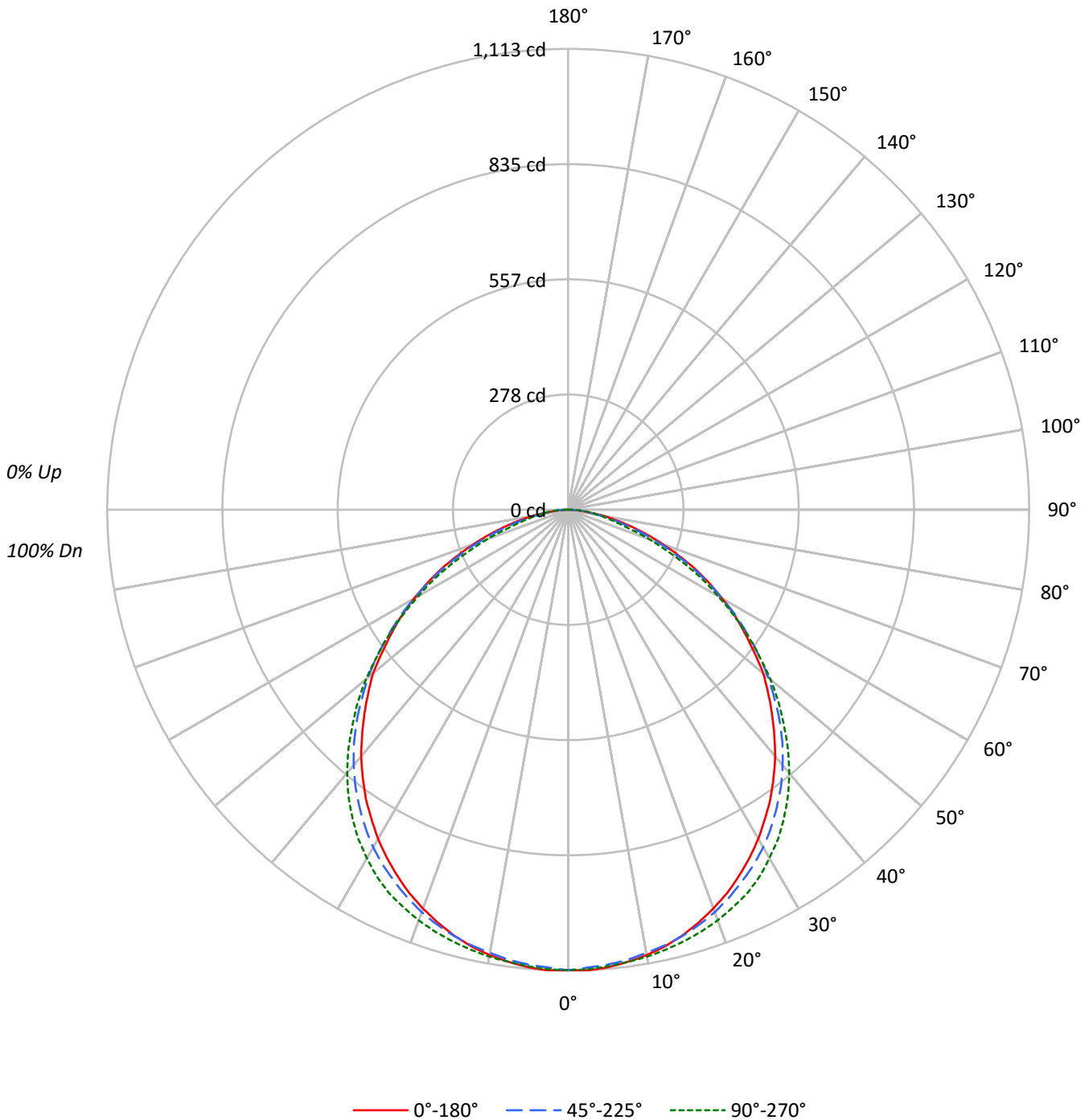
Input Watts (W): 28.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	96	98	95	93		95	92	90		91	89	87	85
2	100	92	85	80	97	90	84	79	87	82	77		83	79	75		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	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	48		59	53	48		58	52	47	45
6	71	58	49	43	69	57	49	43	55	48	43		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	62	48	40	34	60	48	40	34	46	39	34		45	38	34		44	38	33	31
9	58	44	36	31	56	44	36	31	43	35	30		41	35	30		40	35	30	28
10	54	41	33	28	53	40	33	28	39	32	28		38	32	28		38	32	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2993	2993	2993
5°	2997	2979	2990
10°	2984	2970	2995
15°	2966	2969	3006
20°	2935	2961	3022
25°	2898	2945	3035
30°	2852	2925	3020
35°	2798	2884	2984
40°	2731	2829	2917
45°	2647	2748	2803
50°	2574	2640	2668
55°	2444	2494	2481
60°	2313	2313	2249
65°	2147	2097	1978
70°	1904	1821	1644
75°	1650	1498	1265
80°	1353	1168	1148
85°	898	1062	1142



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.1	3.6
10°-20°	301.8	10.2
20°-30°	458.7	15.5
30°-40°	549.2	18.6
40°-50°	554.0	18.7
50°-60°	471.9	16.0
60°-70°	322.7	10.9
70°-80°	154.5	5.2
80°-90°	39.1	1.3
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°	865.7	29.3
0°-40°	1414.9	47.8
0°-60°	2440.7	82.5
0°-90°	2957.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2957.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1112	1112	1112	1112	1112	
5°	1109	1108	1103	1108	1107	105
15°	1064	1062	1066	1078	1079	300
25°	976	977	992	1014	1022	450
35°	852	854	878	903	908	532
45°	696	701	722	736	736	537
55°	521	524	532	533	529	466
65°	337	331	329	317	311	333
75°	159	156	144	126	122	170
85°	29	32	34	36	37	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1112.1	1112.1	1112.1	1112.1	1112.1
2.5°	1113.4	1112.1	1106.8	1112.1	1110.8
5°	1109.4	1108.1	1102.8	1108.1	1106.8
7.5°	1101.5	1100.2	1096.2	1101.5	1101.5
10°	1092.2	1089.6	1086.9	1094.9	1096.2
12.5°	1080.3	1077.7	1077.7	1086.9	1088.3
15°	1064.5	1061.8	1065.8	1077.7	1079.0
17.5°	1046.0	1044.6	1051.2	1065.8	1068.4
20°	1024.8	1023.5	1034.1	1051.2	1055.2
22.5°	1002.3	1002.3	1014.2	1034.1	1039.3
25°	975.9	977.2	991.7	1014.2	1022.2
27.5°	948.1	950.7	967.9	993.1	999.7
30°	917.7	921.7	941.5	965.3	971.9
32.5°	884.6	888.6	911.1	936.2	942.8
35°	851.6	854.2	878.0	903.1	908.4
37.5°	814.6	818.5	843.6	866.1	871.4
40°	777.5	781.5	805.3	826.5	830.4
42.5°	736.5	741.8	765.6	782.8	785.5
45°	695.5	700.8	722.0	736.5	736.5
47.5°	654.5	657.2	675.7	690.3	688.9
50°	614.9	613.6	630.7	637.4	637.4
52.5°	566.0	569.9	581.8	585.8	581.8
55°	521.0	523.6	531.6	532.9	528.9
57.5°	477.4	476.0	482.6	478.7	473.4
60°	429.8	429.8	429.8	425.8	417.9
62.5°	383.5	380.8	379.5	370.3	366.3
65°	337.2	330.6	329.3	317.4	310.7
67.5°	288.3	285.6	279.0	267.1	255.2
70°	242.0	239.3	231.4	216.9	208.9
72.5°	199.7	197.0	186.4	169.3	158.7
75°	158.7	156.0	144.1	125.6	121.7
77.5°	120.3	119.0	107.1	97.9	96.5
80°	87.3	86.0	75.4	75.4	74.1
82.5°	55.5	55.5	52.9	54.2	55.5
85°	29.1	31.7	34.4	35.7	37.0
87.5°	9.3	14.5	17.2	18.5	17.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)