

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: P297775

Luminaire Tested: **D3X-WG-35L93050-LD5-UNV-14-T1-W2A-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297775
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-35L93050-LD5-UNV-14-T1-W2A-3500K
Description: D3X LED 1x4 TUNABLE WHITE TROFFER
WITH RECTANGULAR PERF LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2872.0 lumens
Efficiency: N/A
Efficacy: 84.0 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

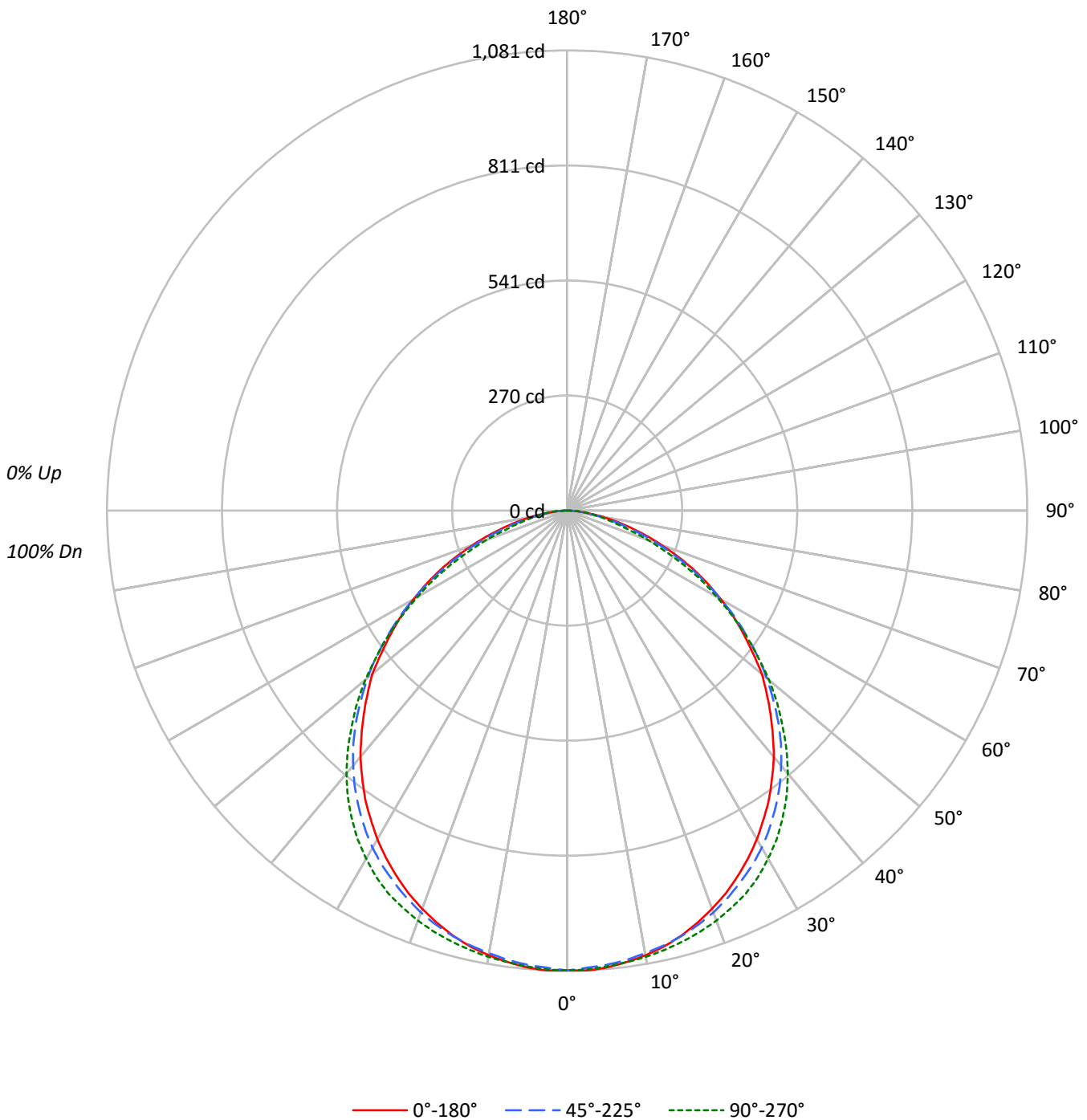
Input Watts (W): 34.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2907	2907	2907
5°	2911	2893	2904
10°	2899	2885	2909
15°	2880	2884	2920
20°	2850	2876	2935
25°	2814	2860	2948
30°	2770	2841	2933
35°	2717	2802	2898
40°	2653	2747	2833
45°	2571	2668	2723
50°	2500	2565	2591
55°	2374	2422	2410
60°	2246	2246	2184
65°	2085	2036	1922
70°	1849	1769	1596
75°	1602	1456	1229
80°	1314	1134	1114
85°	874	1031	1112



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.1	3.6
10°-20°	293.1	10.2
20°-30°	445.5	15.5
30°-40°	533.4	18.6
40°-50°	538.1	18.7
50°-60°	458.3	16.0
60°-70°	313.4	10.9
70°-80°	150.1	5.2
80°-90°	38.0	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°	840.8	29.3
0°-40°	1374.2	47.8
0°-60°	2370.6	82.5
0°-90°	2872.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2872.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1080	1080	1080	1080	1080	
5°	1078	1076	1071	1076	1075	102
15°	1034	1031	1035	1047	1048	292
25°	948	949	963	985	993	437
35°	827	830	853	877	882	517
45°	676	681	701	715	715	522
55°	506	509	516	518	514	453
65°	328	321	320	308	302	323
75°	154	152	140	122	118	165
85°	28	31	33	35	36	36
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1080.1	1080.1	1080.1	1080.1	1080.1
2.5°	1081.4	1080.1	1075.0	1080.1	1078.8
5°	1077.5	1076.3	1071.1	1076.3	1075.0
7.5°	1069.8	1068.5	1064.7	1069.8	1069.8
10°	1060.8	1058.3	1055.7	1063.4	1064.7
12.5°	1049.3	1046.7	1046.7	1055.7	1057.0
15°	1033.9	1031.3	1035.2	1046.7	1048.0
17.5°	1015.9	1014.6	1021.0	1035.2	1037.7
20°	995.3	994.1	1004.3	1021.0	1024.9
22.5°	973.5	973.5	985.1	1004.3	1009.5
25°	947.8	949.1	963.2	985.1	992.8
27.5°	920.9	923.4	940.1	964.5	970.9
30°	891.3	895.2	914.4	937.5	944.0
32.5°	859.2	863.1	884.9	909.3	915.7
35°	827.1	829.7	852.8	877.2	882.3
37.5°	791.1	795.0	819.4	841.2	846.4
40°	755.2	759.0	782.1	802.7	806.5
42.5°	715.4	720.5	743.6	760.3	762.9
45°	675.5	680.7	701.2	715.4	715.4
47.5°	635.7	638.3	656.3	670.4	669.1
50°	597.2	595.9	612.6	619.0	619.0
52.5°	549.7	553.5	565.1	568.9	565.1
55°	506.0	508.6	516.3	517.6	513.7
57.5°	463.6	462.4	468.8	464.9	459.8
60°	417.4	417.4	417.4	413.5	405.8
62.5°	372.5	369.9	368.6	359.6	355.8
65°	327.5	321.1	319.8	308.2	301.8
67.5°	280.0	277.4	271.0	259.4	247.9
70°	235.0	232.5	224.8	210.6	202.9
72.5°	193.9	191.4	181.1	164.4	154.1
75°	154.1	151.5	140.0	122.0	118.2
77.5°	116.9	115.6	104.0	95.0	93.8
80°	84.8	83.5	73.2	73.2	71.9
82.5°	53.9	53.9	51.4	52.7	53.9
85°	28.3	30.8	33.4	34.7	36.0
87.5°	9.0	14.1	16.7	18.0	16.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)