

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: P297632

Luminaire Tested: **D3X-WD-31L93050-LD5-UNV-14-T1-W2A-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297632
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-2)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WD-31L93050-LD5-UNV-14-T1-W2A-4500K
Description: D3X LED 1x4 TUNABLE WHITE TROFFER
WITH ROUND PERF LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2767.0 lumens
Efficiency: N/A
Efficacy: 93.8 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.34 / 1.39
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

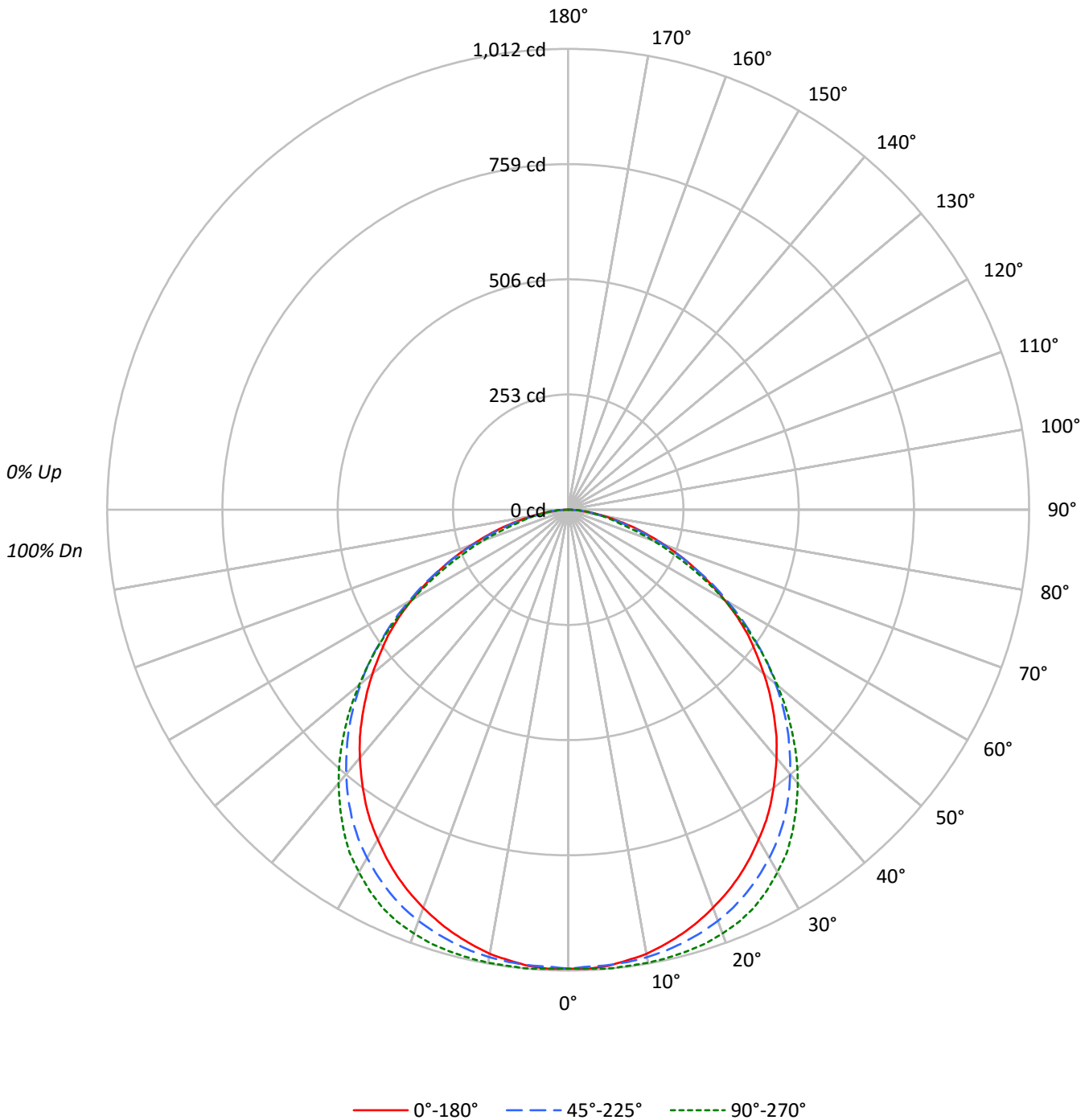
Input Watts (W): 29.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42	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	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31
9	57	44	36	31	56	44	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	27	38	32	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2712	2712	2712
5°	2716	2713	2733
10°	2707	2727	2761
15°	2687	2739	2798
20°	2664	2752	2837
25°	2637	2754	2864
30°	2598	2744	2855
35°	2556	2718	2824
40°	2499	2664	2755
45°	2430	2590	2651
50°	2348	2487	2508
55°	2266	2353	2341
60°	2134	2180	2127
65°	1966	1974	1864
70°	1759	1720	1565
75°	1528	1425	1207
80°	1224	1110	1110
85°	877	1028	1068



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.9	3.5
10°-20°	278.2	10.1
20°-30°	427.2	15.4
30°-40°	514.5	18.6
40°-50°	519.9	18.8
50°-60°	443.5	16.0
60°-70°	303.6	11.0
70°-80°	146.5	5.3
80°-90°	37.8	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°	801.3	29.0
0°-40°	1315.8	47.6
0°-60°	2279.2	82.4
0°-90°	2767.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2767.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1008	1008	1008	1008	1008	
5°	1005	1005	1004	1010	1012	95
15°	965	972	983	1000	1004	272
25°	888	902	928	955	965	409
35°	778	795	828	854	860	486
45°	639	656	681	697	697	492
55°	483	492	502	504	499	430
65°	309	312	310	299	293	306
75°	147	147	137	121	116	156
85°	28	31	33	35	35	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1007.9	1007.9	1007.9	1007.9	1007.9
2.5°	1009.1	1007.9	1004.2	1009.1	1009.1
5°	1005.4	1005.4	1004.2	1010.3	1011.6
7.5°	998.0	1000.5	1001.7	1009.1	1010.3
10°	990.6	993.0	998.0	1007.9	1010.3
12.5°	978.2	983.2	991.8	1005.4	1007.9
15°	964.6	972.1	983.2	1000.5	1004.2
17.5°	948.6	958.5	973.3	993.0	999.2
20°	930.1	941.2	960.9	983.2	990.6
22.5°	910.3	922.6	946.1	972.1	979.5
25°	888.1	901.6	927.6	954.8	964.6
27.5°	863.4	878.2	906.6	935.0	943.6
30°	836.2	852.2	883.1	911.5	918.9
32.5°	809.0	825.1	857.2	884.4	893.0
35°	778.1	795.4	827.5	853.5	859.7
37.5°	744.8	762.1	794.2	820.1	822.6
40°	711.4	728.7	758.4	781.8	784.3
42.5°	676.9	692.9	720.1	739.8	742.3
45°	638.6	655.9	680.6	696.6	696.6
47.5°	600.3	617.6	638.6	649.7	649.7
50°	560.8	576.8	594.1	600.3	599.0
52.5°	521.2	536.0	550.9	552.1	549.6
55°	482.9	491.6	501.5	503.9	499.0
57.5°	440.9	448.4	454.5	450.8	447.1
60°	396.5	403.9	405.1	398.9	395.2
62.5°	353.2	359.4	359.4	349.5	343.4
65°	308.8	312.5	310.0	298.9	292.7
67.5°	266.8	269.3	264.3	253.2	243.3
70°	223.6	224.8	218.6	205.0	198.9
72.5°	184.0	185.3	177.9	161.8	154.4
75°	147.0	147.0	137.1	121.0	116.1
77.5°	109.9	113.6	102.5	93.9	93.9
80°	79.0	82.8	71.6	72.9	71.6
82.5°	51.9	55.6	51.9	51.9	51.9
85°	28.4	30.9	33.3	34.6	34.6
87.5°	8.6	14.8	16.1	17.3	19.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)