

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: P297699

Luminaire Tested: **D3X-WG-31L83050-LD5-UNV-14-T1-W2A-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297699
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-3000K
Description: D3X LED 1x4 TUNABLE WHITE TROFFER
WITH RECTANGULAR PERF LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2795.0 lumens
Efficiency: N/A
Efficacy: 99.1 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

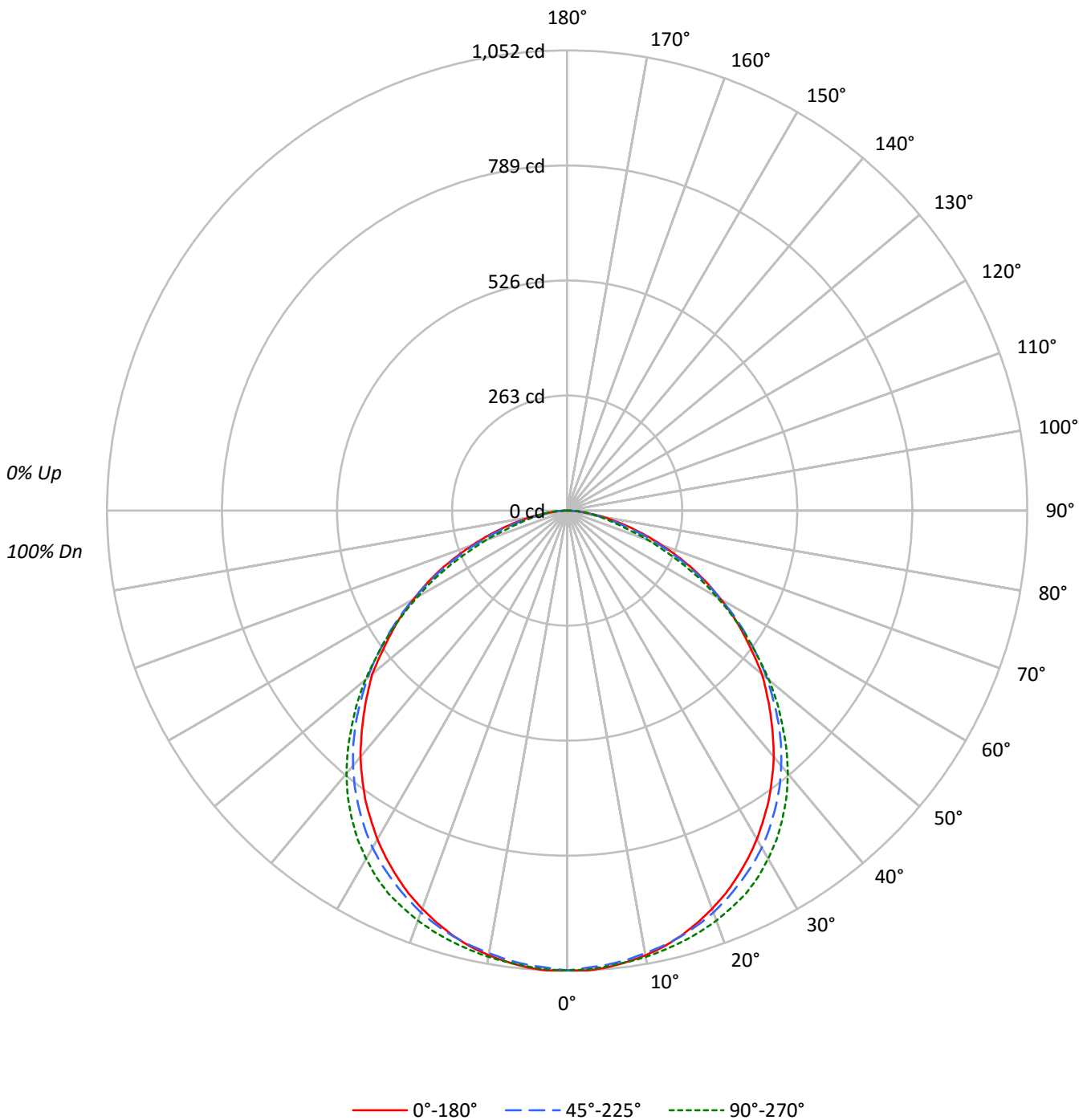
Input Watts (W): 28.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	96	98	95	93	95	92	90	91	89	87	85					85			
2	100	92	85	80	97	90	84	79	87	82	77	83	79	75	80	77	74	72					72			
3	91	81	73	67	89	80	72	66	77	70	65	74	69	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	48	59	53	48	58	52	47	45					45			
6	71	58	49	43	69	57	49	43	55	48	43	54	47	42	52	46	42	40					40			
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35					35			
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	31					31			
9	58	44	36	31	56	44	36	31	43	35	30	41	35	30	40	35	30	28					28			
10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	38	32	27	26					26			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2828	2828	2828
5°	2833	2816	2826
10°	2821	2807	2831
15°	2803	2807	2841
20°	2774	2799	2856
25°	2739	2783	2869
30°	2695	2765	2855
35°	2644	2726	2821
40°	2582	2674	2757
45°	2502	2597	2649
50°	2433	2496	2522
55°	2311	2358	2346
60°	2186	2186	2126
65°	2029	1982	1870
70°	1799	1721	1554
75°	1560	1416	1196
80°	1278	1103	1085
85°	849	1003	1081



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.4	3.6
10°-20°	285.3	10.2
20°-30°	433.6	15.5
30°-40°	519.1	18.6
40°-50°	523.6	18.7
50°-60°	446.0	16.0
60°-70°	305.0	10.9
70°-80°	146.0	5.2
80°-90°	37.0	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°	818.3	29.3
0°-40°	1337.4	47.8
0°-60°	2307.0	82.5
0°-90°	2795.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2795.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1051	1051	1051	1051	1051	
5°	1049	1047	1042	1047	1046	100
15°	1006	1004	1007	1019	1020	284
25°	922	924	937	959	966	425
35°	805	807	830	854	859	503
45°	657	662	682	696	696	508
55°	492	495	502	504	500	441
65°	319	312	311	300	294	314
75°	150	148	136	119	115	160
85°	28	30	32	34	35	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1051.1	1051.1	1051.1	1051.1	1051.1
2.5°	1052.4	1051.1	1046.1	1051.1	1049.9
5°	1048.6	1047.4	1042.4	1047.4	1046.1
7.5°	1041.1	1039.9	1036.1	1041.1	1041.1
10°	1032.4	1029.9	1027.4	1034.9	1036.1
12.5°	1021.2	1018.7	1018.7	1027.4	1028.6
15°	1006.2	1003.7	1007.4	1018.7	1019.9
17.5°	988.7	987.4	993.7	1007.4	1009.9
20°	968.7	967.4	977.4	993.7	997.4
22.5°	947.4	947.4	958.7	977.4	982.4
25°	922.4	923.7	937.4	958.7	966.2
27.5°	896.2	898.7	914.9	938.7	944.9
30°	867.4	871.2	889.9	912.4	918.7
32.5°	836.2	839.9	861.2	884.9	891.2
35°	804.9	807.4	829.9	853.7	858.7
37.5°	769.9	773.7	797.4	818.7	823.7
40°	734.9	738.7	761.2	781.2	784.9
42.5°	696.2	701.2	723.7	739.9	742.4
45°	657.4	662.4	682.4	696.2	696.2
47.5°	618.7	621.2	638.7	652.4	651.2
50°	581.2	579.9	596.2	602.4	602.4
52.5°	534.9	538.7	549.9	553.7	549.9
55°	492.5	495.0	502.5	503.7	500.0
57.5°	451.2	450.0	456.2	452.5	447.5
60°	406.2	406.2	406.2	402.5	395.0
62.5°	362.5	360.0	358.7	350.0	346.2
65°	318.7	312.5	311.2	300.0	293.7
67.5°	272.5	270.0	263.7	252.5	241.2
70°	228.7	226.2	218.7	205.0	197.5
72.5°	188.7	186.2	176.2	160.0	150.0
75°	150.0	147.5	136.2	118.7	115.0
77.5°	113.7	112.5	101.2	92.5	91.2
80°	82.5	81.2	71.2	71.2	70.0
82.5°	52.5	52.5	50.0	51.2	52.5
85°	27.5	30.0	32.5	33.7	35.0
87.5°	8.7	13.7	16.2	17.5	16.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)