

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: P297736

Luminaire Tested: **D3X-WG-31L82765-LD5-UNV-14-T1-W2A-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297736
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-31L82765-LD5-UNV-14-T1-W2A-4500K
Description: D3X LED 1x4 TUNABLE WHITE TROFFER
WITH RECTANGULAR PERF LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3004.0 lumens
Efficiency: N/A
Efficacy: 104.3 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

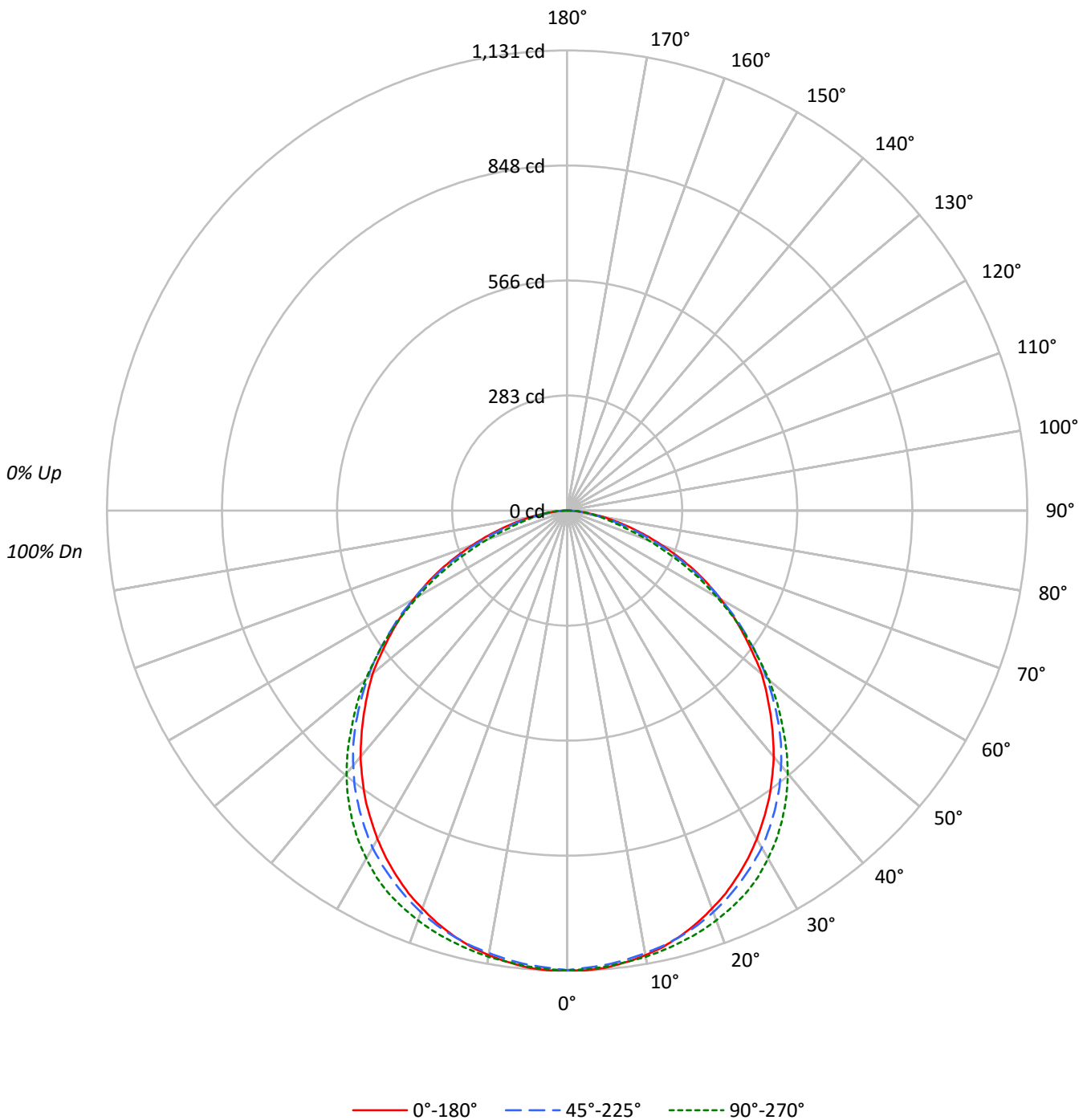
Input Watts (W): 28.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3040	3040	3040
5°	3045	3026	3037
10°	3032	3017	3043
15°	3013	3016	3054
20°	2981	3008	3070
25°	2944	2991	3083
30°	2897	2972	3068
35°	2842	2930	3032
40°	2775	2874	2963
45°	2689	2791	2847
50°	2615	2683	2711
55°	2483	2533	2521
60°	2350	2350	2285
65°	2181	2130	2010
70°	1934	1850	1670
75°	1676	1522	1285
80°	1375	1187	1165
85°	914	1078	1161



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.8	3.6
10°-20°	306.6	10.2
20°-30°	466.0	15.5
30°-40°	557.9	18.6
40°-50°	562.8	18.7
50°-60°	479.4	16.0
60°-70°	327.8	10.9
70°-80°	156.9	5.2
80°-90°	39.7	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°	879.4	29.3
0°-40°	1437.4	47.8
0°-60°	2479.5	82.5
0°-90°	3004.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3004.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1130	1130	1130	1130	1130	
5°	1127	1126	1120	1126	1124	107
15°	1081	1079	1083	1095	1096	305
25°	991	993	1008	1030	1038	457
35°	865	868	892	918	923	540
45°	707	712	734	748	748	546
55°	529	532	540	541	537	474
65°	343	336	334	322	316	338
75°	161	158	146	128	124	172
85°	30	32	35	36	38	38
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1129.7	1129.7	1129.7	1129.7	1129.7
2.5°	1131.1	1129.7	1124.4	1129.7	1128.4
5°	1127.1	1125.7	1120.3	1125.7	1124.4
7.5°	1119.0	1117.7	1113.6	1119.0	1119.0
10°	1109.6	1106.9	1104.2	1112.3	1113.6
12.5°	1097.5	1094.8	1094.8	1104.2	1105.6
15°	1081.4	1078.7	1082.7	1094.8	1096.2
17.5°	1062.6	1061.2	1068.0	1082.7	1085.4
20°	1041.1	1039.7	1050.5	1068.0	1072.0
22.5°	1018.3	1018.3	1030.3	1050.5	1055.9
25°	991.4	992.7	1007.5	1030.3	1038.4
27.5°	963.2	965.9	983.3	1008.8	1015.6
30°	932.3	936.3	956.5	980.6	987.4
32.5°	898.7	902.7	925.6	951.1	957.8
35°	865.1	867.8	892.0	917.5	922.9
37.5°	827.5	831.5	857.1	879.9	885.3
40°	789.9	793.9	818.1	839.6	843.6
42.5°	748.2	753.6	777.8	795.3	797.9
45°	706.6	712.0	733.5	748.2	748.2
47.5°	665.0	667.6	686.4	701.2	699.9
50°	624.7	623.3	640.8	647.5	647.5
52.5°	574.9	579.0	591.1	595.1	591.1
55°	529.3	532.0	540.0	541.4	537.3
57.5°	484.9	483.6	490.3	486.3	480.9
60°	436.6	436.6	436.6	432.6	424.5
62.5°	389.6	386.9	385.5	376.1	372.1
65°	342.6	335.8	334.5	322.4	315.7
67.5°	292.8	290.2	283.4	271.4	259.3
70°	245.8	243.1	235.1	220.3	212.2
72.5°	202.8	200.2	189.4	171.9	161.2
75°	161.2	158.5	146.4	127.6	123.6
77.5°	122.2	120.9	108.8	99.4	98.1
80°	88.7	87.3	76.6	76.6	75.2
82.5°	56.4	56.4	53.7	55.1	56.4
85°	29.6	32.2	34.9	36.3	37.6
87.5°	9.4	14.8	17.5	18.8	17.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)