

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: P298149

Luminaire Tested: **D3X-WG-31L83050-LD5-UNV-22-T1-W2A-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P298149
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-6)
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-22-T1-W2A-4000K
Description: D3X LED 2x2 TUNABLE WHITE TROFFER
WITH RECTANGULAR PERF LENS
Light Source: (252) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3098.0 lumens
Efficiency: N/A
Efficacy: 123.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.3 / 1.35
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

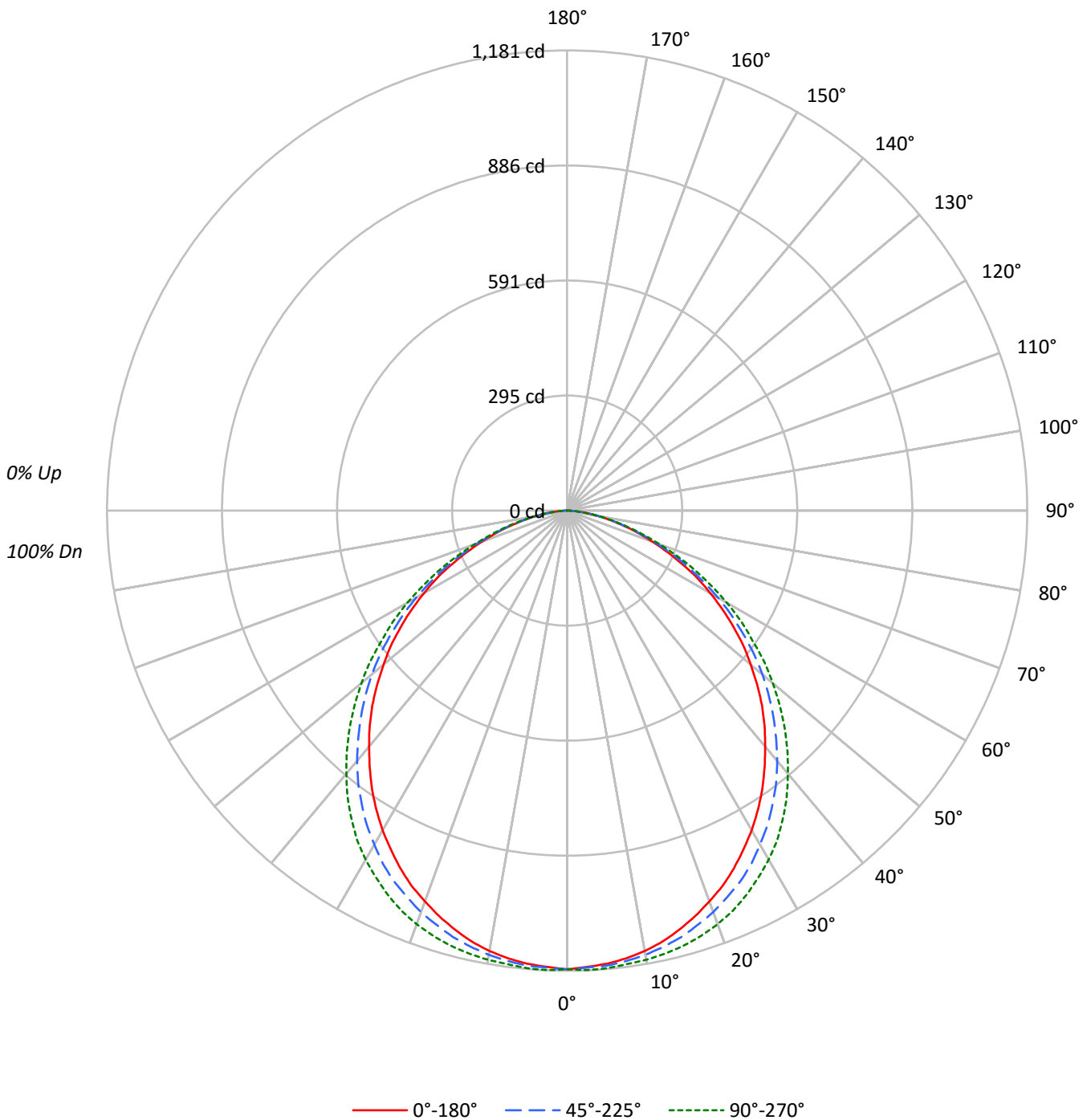
Input Watts (W): 25
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	86	80	97	90	84	79	87	82	77	83	79	76	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	82	71	63	57	68	61	56	66	60	55	64	59	54	52
5	77	65	56	49	75	64	55	49	61	54	49	59	53	48	58	52	48	45
6	71	58	50	43	69	57	49	43	56	48	43	54	47	42	52	47	42	40
7	66	53	44	38	64	52	44	38	51	43	38	49	43	38	48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	39	34	44	38	34	32
9	58	44	36	31	56	44	36	31	43	36	31	42	35	30	41	35	30	28
10	54	41	33	28	53	40	33	28	40	33	28	39	32	28	38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3168	3168	3168
5°	3153	3167	3185
10°	3136	3163	3199
15°	3101	3156	3220
20°	3056	3141	3235
25°	3007	3120	3232
30°	2943	3076	3214
35°	2868	3020	3171
40°	2778	2946	3096
45°	2691	2847	3004
50°	2575	2740	2884
55°	2445	2584	2723
60°	2283	2407	2549
65°	2083	2178	2303
70°	1824	1902	1980
75°	1555	1590	1658
80°	1249	1274	1300
85°	914	865	812



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.4	3.6
10°-20°	319.8	10.3
20°-30°	483.5	15.6
30°-40°	574.3	18.5
40°-50°	576.6	18.6
50°-60°	492.5	15.9
60°-70°	339.3	11.0
70°-80°	164.5	5.3
80°-90°	36.0	1.2
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°	914.8	29.5
0°-40°	1489.1	48.1
0°-60°	2558.2	82.6
0°-90°	3098.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3098.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1177	1177	1177	1177	1177	
5°	1167	1167	1172	1176	1179	111
15°	1113	1118	1133	1148	1156	314
25°	1013	1021	1051	1079	1088	466
35°	873	886	919	954	965	545
45°	707	717	748	779	789	544
55°	521	530	551	574	580	466
65°	327	327	342	357	362	324
75°	150	146	153	156	160	161
85°	30	30	28	26	26	36
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1177.3	1177.3	1177.3	1177.3	1177.3
2.5°	1172.4	1172.4	1174.0	1179.0	1180.6
5°	1167.4	1167.4	1172.4	1175.7	1179.0
7.5°	1159.2	1160.9	1165.8	1172.4	1174.0
10°	1147.7	1149.4	1157.6	1165.8	1170.7
12.5°	1132.9	1136.2	1146.1	1159.2	1164.2
15°	1113.2	1118.1	1132.9	1147.7	1155.9
17.5°	1091.8	1098.4	1114.8	1136.2	1144.4
20°	1067.1	1075.4	1096.7	1119.8	1129.6
22.5°	1042.5	1049.1	1073.7	1100.0	1111.5
25°	1012.9	1021.1	1050.7	1078.7	1088.5
27.5°	980.0	991.5	1022.7	1052.3	1062.2
30°	947.1	957.0	989.9	1022.7	1034.3
32.5°	910.9	920.8	957.0	989.9	1003.0
35°	873.1	886.3	919.2	953.7	965.2
37.5°	832.0	846.8	881.3	910.9	925.7
40°	790.9	804.1	838.6	869.8	881.3
42.5°	749.8	761.3	794.2	827.1	836.9
45°	707.0	716.9	748.2	779.4	789.3
47.5°	661.0	672.5	702.1	728.4	739.9
50°	615.0	626.5	654.4	679.1	689.0
52.5°	570.6	577.1	603.5	626.5	638.0
55°	521.2	529.5	550.8	573.9	580.4
57.5°	473.6	478.5	499.9	519.6	529.5
60°	424.2	427.5	447.2	462.0	473.6
62.5°	378.2	378.2	393.0	409.4	416.0
65°	327.2	327.2	342.0	356.8	361.7
67.5°	277.9	281.2	291.0	302.5	305.8
70°	231.8	231.8	241.7	249.9	251.6
72.5°	190.7	189.1	194.0	200.6	203.9
75°	149.6	146.3	152.9	156.2	159.5
77.5°	113.5	111.8	115.1	118.4	118.4
80°	80.6	78.9	82.2	82.2	83.9
82.5°	52.6	54.3	54.3	52.6	51.0
85°	29.6	29.6	28.0	26.3	26.3
87.5°	9.9	9.9	9.9	11.5	11.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)