

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: P298238

Luminaire Tested: **D3X-WG-35L93050-LD5-UNV-22-T1-W2A-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P298238
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-35L93050-LD5-UNV-22-T1-W2A-4000K
Description: D3X LED 2x2 TUNABLE WHITE TROFFER
WITH RECTANGULAR PERF LENS
Light Source: (252) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3049.0 lumens
Efficiency: N/A
Efficacy: 106.6 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

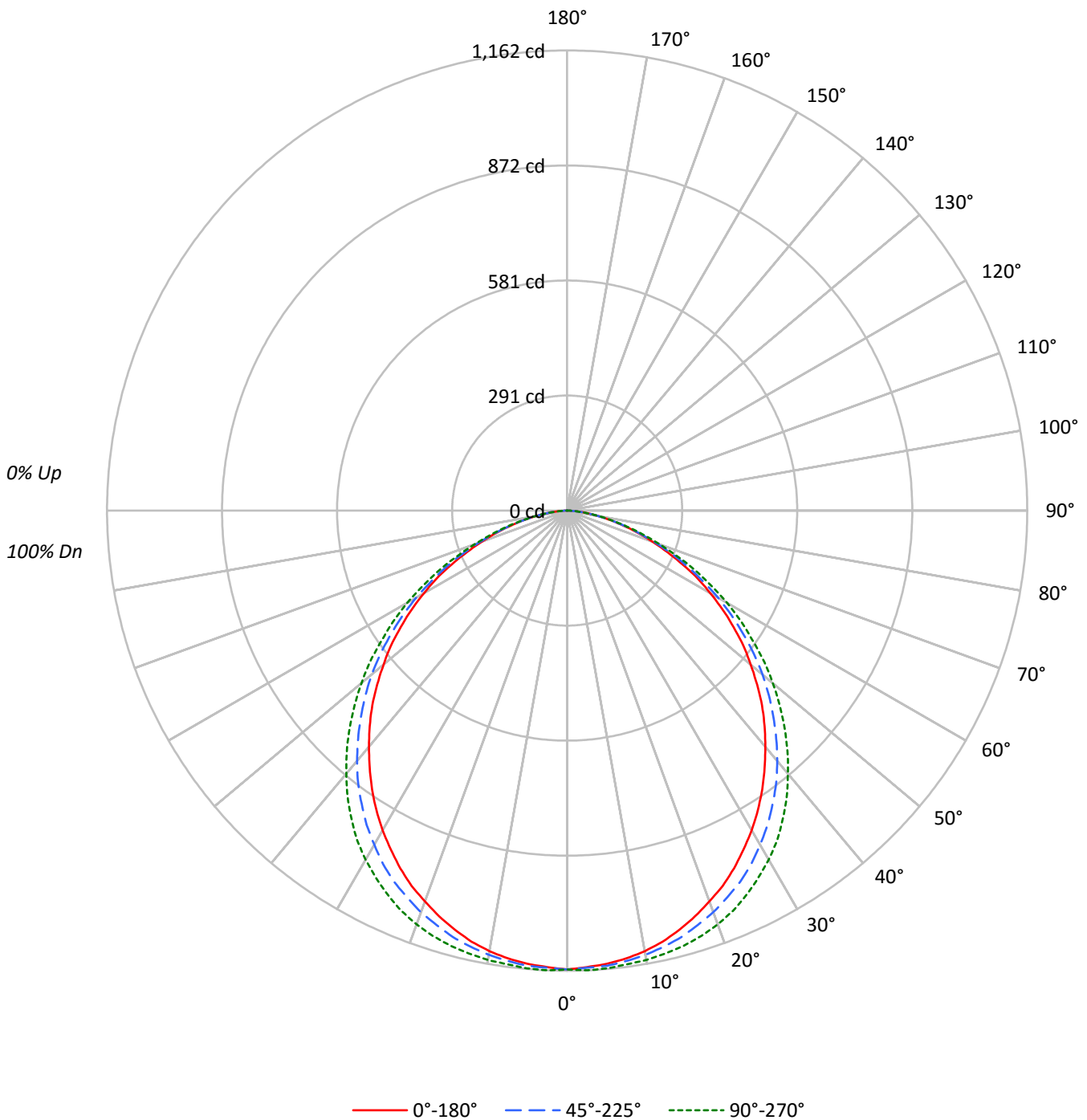
Input Watts (W): 28.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3118	3118	3118
5°	3104	3117	3134
10°	3087	3113	3148
15°	3052	3106	3170
20°	3008	3091	3184
25°	2960	3070	3181
30°	2896	3027	3163
35°	2823	2972	3120
40°	2734	2899	3047
45°	2648	2802	2956
50°	2534	2696	2839
55°	2407	2543	2680
60°	2247	2369	2509
65°	2050	2143	2267
70°	1795	1872	1948
75°	1531	1565	1632
80°	1229	1254	1278
85°	898	849	800



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.7	3.6
10°-20°	314.8	10.3
20°-30°	475.9	15.6
30°-40°	565.2	18.5
40°-50°	567.5	18.6
50°-60°	484.7	15.9
60°-70°	333.9	11.0
70°-80°	161.9	5.3
80°-90°	35.4	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°	900.3	29.5
0°-40°	1465.6	48.1
0°-60°	2517.7	82.6
0°-90°	3049.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3049.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1159	1159	1159	1159	1159	
5°	1149	1149	1154	1157	1160	109
15°	1096	1100	1115	1130	1138	309
25°	997	1005	1034	1062	1071	459
35°	859	872	905	939	950	537
45°	696	706	736	767	777	536
55°	513	521	542	565	571	459
65°	322	322	337	351	356	319
75°	147	144	150	154	157	158
85°	29	29	28	26	26	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1158.7	1158.7	1158.7	1158.7	1158.7
2.5°	1153.8	1153.8	1155.5	1160.3	1161.9
5°	1149.0	1149.0	1153.8	1157.1	1160.3
7.5°	1140.9	1142.5	1147.4	1153.8	1155.5
10°	1129.6	1131.2	1139.3	1147.4	1152.2
12.5°	1115.0	1118.2	1127.9	1140.9	1145.7
15°	1095.6	1100.4	1115.0	1129.6	1137.7
17.5°	1074.5	1081.0	1097.2	1118.2	1126.3
20°	1050.3	1058.4	1079.4	1102.1	1111.8
22.5°	1026.0	1032.5	1056.7	1082.6	1094.0
25°	996.9	1005.0	1034.1	1061.6	1071.3
27.5°	964.5	975.8	1006.6	1035.7	1045.4
30°	932.1	941.8	974.2	1006.6	1017.9
32.5°	896.5	906.2	941.8	974.2	987.2
35°	859.3	872.3	904.6	938.6	949.9
37.5°	818.9	833.4	867.4	896.5	911.1
40°	778.4	791.3	825.3	856.1	867.4
42.5°	737.9	749.3	781.6	814.0	823.7
45°	695.9	705.6	736.3	767.1	776.8
47.5°	650.5	661.9	691.0	716.9	728.2
50°	605.2	616.6	644.1	668.4	678.1
52.5°	561.5	568.0	593.9	616.6	627.9
55°	513.0	521.1	542.1	564.8	571.3
57.5°	466.1	470.9	492.0	511.4	521.1
60°	417.5	420.8	440.2	454.7	466.1
62.5°	372.2	372.2	386.8	403.0	409.4
65°	322.0	322.0	336.6	351.2	356.0
67.5°	273.5	276.7	286.4	297.8	301.0
70°	228.2	228.2	237.9	246.0	247.6
72.5°	187.7	186.1	191.0	197.4	200.7
75°	147.3	144.0	150.5	153.7	157.0
77.5°	111.7	110.0	113.3	116.5	116.5
80°	79.3	77.7	80.9	80.9	82.5
82.5°	51.8	53.4	53.4	51.8	50.2
85°	29.1	29.1	27.5	25.9	25.9
87.5°	9.7	9.7	9.7	11.3	11.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)