

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: P297780

Luminaire Tested: **D3X-WG-40L93050-LD5-UNV-14-T1-W2A-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297780
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-40L93050-LD5-UNV-14-T1-W2A-3500K
Description: D3X LED 1x4 TUNABLE WHITE TROFFER
WITH RECTANGULAR PERF LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3269.0 lumens
Efficiency: N/A
Efficacy: 81.3 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

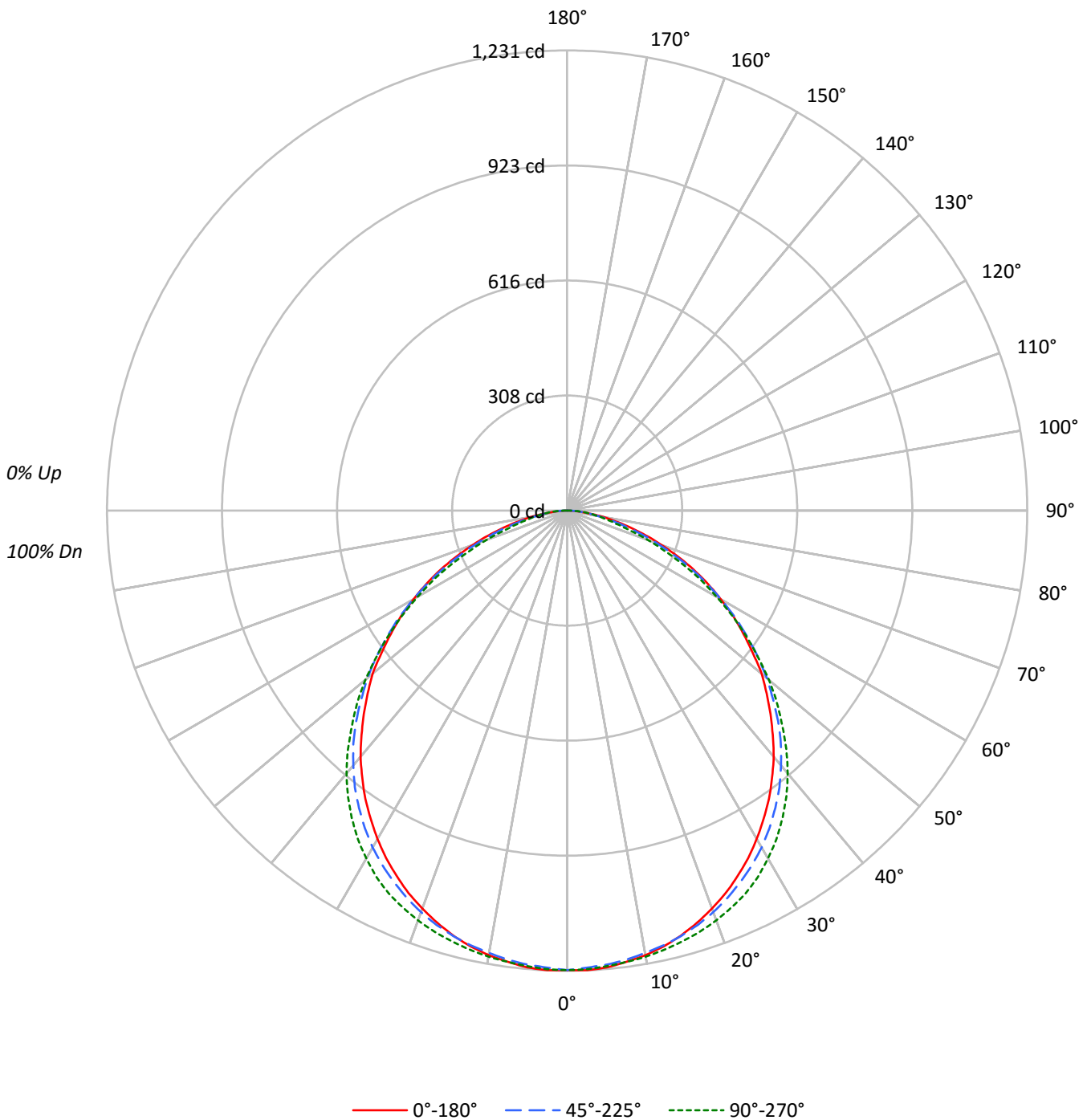
Input Watts (W): 40.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	3308	3308	3308
5°	3313	3293	3305
10°	3299	3283	3312
15°	3278	3282	3323
20°	3244	3274	3341
25°	3203	3255	3355
30°	3152	3234	3339
35°	3093	3189	3299
40°	3020	3127	3225
45°	2926	3038	3099
50°	2846	2919	2950
55°	2702	2757	2743
60°	2557	2557	2486
65°	2374	2318	2187
70°	2105	2013	1817
75°	1824	1656	1398
80°	1495	1291	1269
85°	994	1173	1263



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.2	3.6
10°-20°	333.7	10.2
20°-30°	507.1	15.5
30°-40°	607.2	18.6
40°-50°	612.4	18.7
50°-60°	521.7	16.0
60°-70°	356.7	10.9
70°-80°	170.8	5.2
80°-90°	43.3	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°	957.0	29.3
0°-40°	1564.2	47.8
0°-60°	2698.3	82.5
0°-90°	3269.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3269.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1229	1229	1229	1229	1229	
5°	1226	1225	1219	1225	1224	116
15°	1177	1174	1178	1191	1193	332
25°	1079	1080	1096	1121	1130	497
35°	941	944	971	998	1004	588
45°	769	775	798	814	814	594
55°	576	579	588	589	585	516
65°	373	366	364	351	344	368
75°	175	172	159	139	134	187
85°	32	35	38	40	41	41
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1229.4	1229.4	1229.4	1229.4	1229.4
2.5°	1230.9	1229.4	1223.6	1229.4	1227.9
5°	1226.5	1225.0	1219.2	1225.0	1223.6
7.5°	1217.7	1216.3	1211.9	1217.7	1217.7
10°	1207.5	1204.6	1201.6	1210.4	1211.9
12.5°	1194.3	1191.4	1191.4	1201.6	1203.1
15°	1176.8	1173.9	1178.2	1191.4	1192.9
17.5°	1156.3	1154.9	1162.2	1178.2	1181.2
20°	1132.9	1131.5	1143.2	1162.2	1166.6
22.5°	1108.1	1108.1	1121.2	1143.2	1149.0
25°	1078.8	1080.3	1096.4	1121.2	1130.0
27.5°	1048.1	1051.1	1070.1	1097.8	1105.2
30°	1014.5	1018.9	1040.8	1067.1	1074.5
32.5°	978.0	982.4	1007.2	1035.0	1042.3
35°	941.4	944.4	970.7	998.4	1004.3
37.5°	900.5	904.9	932.7	957.5	963.4
40°	859.6	863.9	890.3	913.7	918.0
42.5°	814.2	820.1	846.4	865.4	868.3
45°	768.9	774.8	798.2	814.2	814.2
47.5°	723.6	726.5	747.0	763.1	761.6
50°	679.8	678.3	697.3	704.6	704.6
52.5°	625.7	630.1	643.2	647.6	643.2
55°	576.0	578.9	587.7	589.1	584.7
57.5°	527.7	526.3	533.6	529.2	523.3
60°	475.1	475.1	475.1	470.7	461.9
62.5°	423.9	421.0	419.5	409.3	404.9
65°	372.8	365.5	364.0	350.8	343.5
67.5°	318.7	315.8	308.4	295.3	282.1
70°	267.5	264.6	255.8	239.7	231.0
72.5°	220.7	217.8	206.1	187.1	175.4
75°	175.4	172.5	159.3	138.9	134.5
77.5°	133.0	131.6	118.4	108.2	106.7
80°	96.5	95.0	83.3	83.3	81.9
82.5°	61.4	61.4	58.5	59.9	61.4
85°	32.2	35.1	38.0	39.5	40.9
87.5°	10.2	16.1	19.0	20.5	19.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)