

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: P297640

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297640
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-2)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WD-40L93050-LD5-UNV-14-T1-W2A-3500K
Description: D3X LED 1x4 TUNABLE WHITE TROFFER
WITH ROUND PERF LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3274.0 lumens
Efficiency: N/A
Efficacy: 81.4 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.34 / 1.39
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

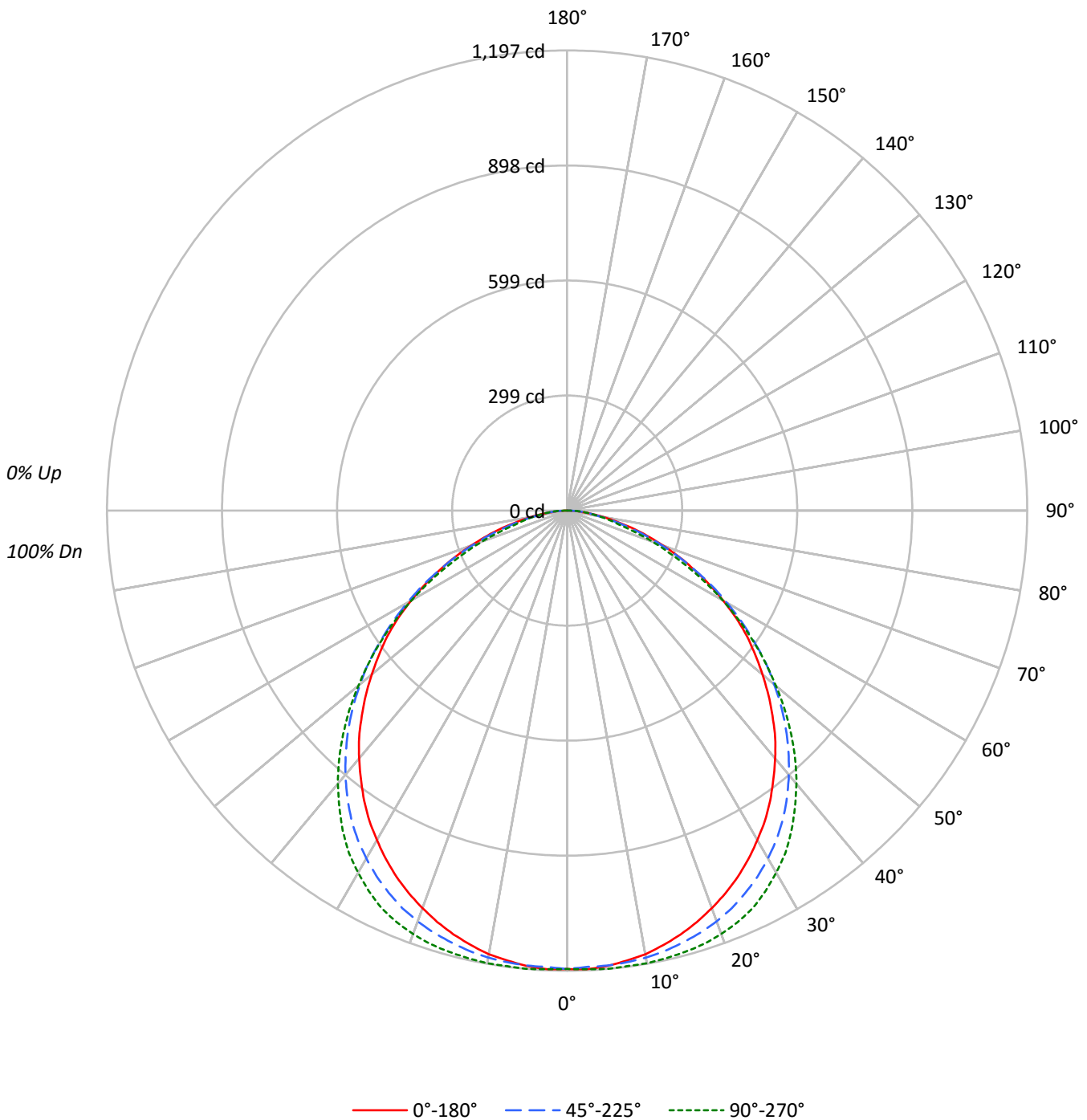
Input Watts (W): 40.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	92	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42	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	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31
9	57	44	36	31	56	44	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	27	38	32	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3209	3209	3209
5°	3213	3210	3233
10°	3203	3227	3267
15°	3180	3241	3310
20°	3151	3256	3357
25°	3120	3259	3389
30°	3074	3247	3379
35°	3025	3217	3342
40°	2957	3152	3260
45°	2876	3065	3137
50°	2778	2943	2967
55°	2681	2784	2770
60°	2525	2580	2517
65°	2327	2336	2206
70°	2081	2035	1851
75°	1808	1686	1429
80°	1449	1314	1314
85°	1037	1220	1263



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.4	3.5
10°-20°	329.2	10.1
20°-30°	505.5	15.4
30°-40°	608.8	18.6
40°-50°	615.2	18.8
50°-60°	524.7	16.0
60°-70°	359.2	11.0
70°-80°	173.3	5.3
80°-90°	44.7	1.4
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°	948.1	29.0
0°-40°	1556.9	47.6
0°-60°	2696.8	82.4
0°-90°	3274.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3274.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1192	1192	1192	1192	1192	
5°	1190	1190	1188	1196	1197	113
15°	1141	1150	1163	1184	1188	322
25°	1051	1067	1098	1130	1141	484
35°	921	941	979	1010	1017	575
45°	756	776	805	824	824	583
55°	571	582	593	596	590	509
65°	365	370	367	354	346	362
75°	174	174	162	143	137	185
85°	34	36	40	41	41	41
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1192.5	1192.5	1192.5	1192.5	1192.5
2.5°	1194.0	1192.5	1188.2	1194.0	1194.0
5°	1189.6	1189.6	1188.2	1195.5	1196.9
7.5°	1180.9	1183.8	1185.2	1194.0	1195.5
10°	1172.1	1175.0	1180.9	1192.5	1195.5
12.5°	1157.5	1163.3	1173.5	1189.6	1192.5
15°	1141.4	1150.2	1163.3	1183.8	1188.2
17.5°	1122.4	1134.1	1151.6	1175.0	1182.3
20°	1100.5	1113.6	1137.0	1163.3	1172.1
22.5°	1077.1	1091.7	1119.5	1150.2	1158.9
25°	1050.8	1066.9	1097.5	1129.7	1141.4
27.5°	1021.6	1039.1	1072.7	1106.3	1116.5
30°	989.4	1008.4	1044.9	1078.5	1087.3
32.5°	957.2	976.2	1014.2	1046.4	1056.6
35°	920.7	941.2	979.2	1009.9	1017.2
37.5°	881.3	901.7	939.7	970.4	973.3
40°	841.8	862.3	897.3	925.1	928.0
42.5°	800.9	819.9	852.0	875.4	878.3
45°	755.6	776.0	805.3	824.3	824.3
47.5°	710.3	730.7	755.6	768.7	768.7
50°	663.5	682.5	703.0	710.3	708.8
52.5°	616.7	634.3	651.8	653.3	650.3
55°	571.4	581.7	593.3	596.3	590.4
57.5°	521.7	530.5	537.8	533.4	529.0
60°	469.1	477.9	479.4	472.0	467.7
62.5°	418.0	425.3	425.3	413.6	406.3
65°	365.4	369.7	366.8	353.7	346.4
67.5°	315.7	318.6	312.8	299.6	287.9
70°	264.5	266.0	258.7	242.6	235.3
72.5°	217.8	219.2	210.4	191.4	182.7
75°	173.9	173.9	162.2	143.2	137.4
77.5°	130.1	134.5	121.3	111.1	111.1
80°	93.5	97.9	84.8	86.2	84.8
82.5°	61.4	65.8	61.4	61.4	61.4
85°	33.6	36.5	39.5	40.9	40.9
87.5°	10.2	17.5	19.0	20.5	23.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)