

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: P297820

Luminaire Tested: **D3X-WG-40L92765-LD5-UNV-14-T1-W2A-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297820
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-40L92765-LD5-UNV-14-T1-W2A-2700K
Description: D3X LED 1x4 TUNABLE WHITE TROFFER
WITH RECTANGULAR PERF LENS
Light Source: (168) 90 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3013.0 lumens
Efficiency: N/A
Efficacy: 76.7 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

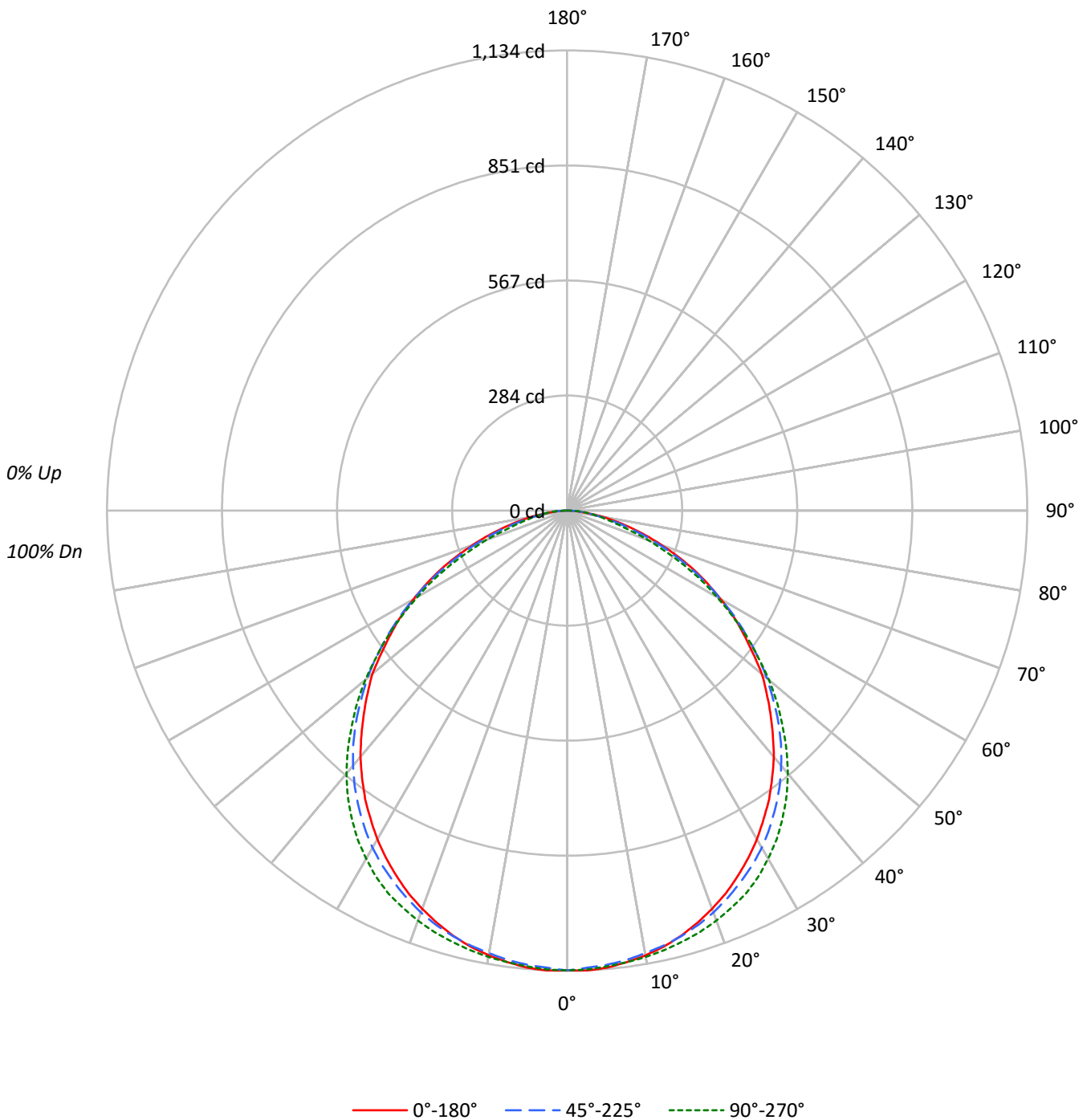
Input Watts (W): 39.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3049	3049	3049
5°	3054	3035	3046
10°	3041	3026	3052
15°	3022	3025	3063
20°	2990	3017	3079
25°	2953	3000	3092
30°	2906	2981	3077
35°	2850	2939	3041
40°	2783	2882	2972
45°	2697	2800	2856
50°	2623	2691	2719
55°	2491	2541	2528
60°	2357	2357	2292
65°	2188	2136	2016
70°	1940	1855	1675
75°	1681	1527	1289
80°	1378	1190	1170
85°	914	1081	1164



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.1	3.6
10°-20°	307.5	10.2
20°-30°	467.4	15.5
30°-40°	559.6	18.6
40°-50°	564.5	18.7
50°-60°	480.8	16.0
60°-70°	328.8	10.9
70°-80°	157.4	5.2
80°-90°	39.9	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°	882.1	29.3
0°-40°	1441.7	47.8
0°-60°	2486.9	82.5
0°-90°	3013.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3013.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1133	1133	1133	1133	1133	
5°	1130	1129	1124	1129	1128	107
15°	1085	1082	1086	1098	1099	306
25°	994	996	1010	1033	1042	458
35°	868	870	895	920	926	542
45°	709	714	736	750	750	547
55°	531	534	542	543	539	475
65°	344	337	336	323	317	339
75°	162	159	147	128	124	173
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°	1133.1	1133.1	1133.1	1133.1	1133.1
2.5°	1134.5	1133.1	1127.7	1133.1	1131.8
5°	1130.4	1129.1	1123.7	1129.1	1127.7
7.5°	1122.4	1121.0	1117.0	1122.4	1122.4
10°	1112.9	1110.2	1107.5	1115.6	1117.0
12.5°	1100.8	1098.1	1098.1	1107.5	1108.9
15°	1084.6	1081.9	1086.0	1098.1	1099.4
17.5°	1065.8	1064.4	1071.2	1086.0	1088.7
20°	1044.2	1042.9	1053.6	1071.2	1075.2
22.5°	1021.3	1021.3	1033.4	1053.6	1059.0
25°	994.4	995.7	1010.5	1033.4	1041.5
27.5°	966.1	968.8	986.3	1011.9	1018.6
30°	935.1	939.1	959.3	983.6	990.3
32.5°	901.4	905.4	928.3	953.9	960.7
35°	867.7	870.4	894.6	920.2	925.6
37.5°	830.0	834.0	859.6	882.5	887.9
40°	792.3	796.3	820.5	842.1	846.1
42.5°	750.5	755.9	780.1	797.6	800.3
45°	708.7	714.1	735.7	750.5	750.5
47.5°	666.9	669.6	688.5	703.3	702.0
50°	626.5	625.2	642.7	649.4	649.4
52.5°	576.7	580.7	592.8	596.9	592.8
55°	530.9	533.6	541.6	543.0	538.9
57.5°	486.4	485.1	491.8	487.7	482.4
60°	437.9	437.9	437.9	433.9	425.8
62.5°	390.7	388.0	386.7	377.3	373.2
65°	343.6	336.8	335.5	323.4	316.6
67.5°	293.7	291.0	284.3	272.2	260.0
70°	246.6	243.9	235.8	221.0	212.9
72.5°	203.5	200.8	190.0	172.5	161.7
75°	161.7	159.0	146.9	128.0	124.0
77.5°	122.6	121.3	109.1	99.7	98.4
80°	88.9	87.6	76.8	76.8	75.5
82.5°	56.6	56.6	53.9	55.2	56.6
85°	29.6	32.3	35.0	36.4	37.7
87.5°	9.4	14.8	17.5	18.9	17.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)