

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: P297706

Luminaire Tested: **D3X-WG-35L83050-LD5-UNV-14-T1-W2A-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297706
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-35L83050-LD5-UNV-14-T1-W2A-4000K
Description: D3X LED 1x4 TUNABLE WHITE TROFFER
WITH RECTANGULAR PERF LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3548.0 lumens
Efficiency: N/A
Efficacy: 103.4 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

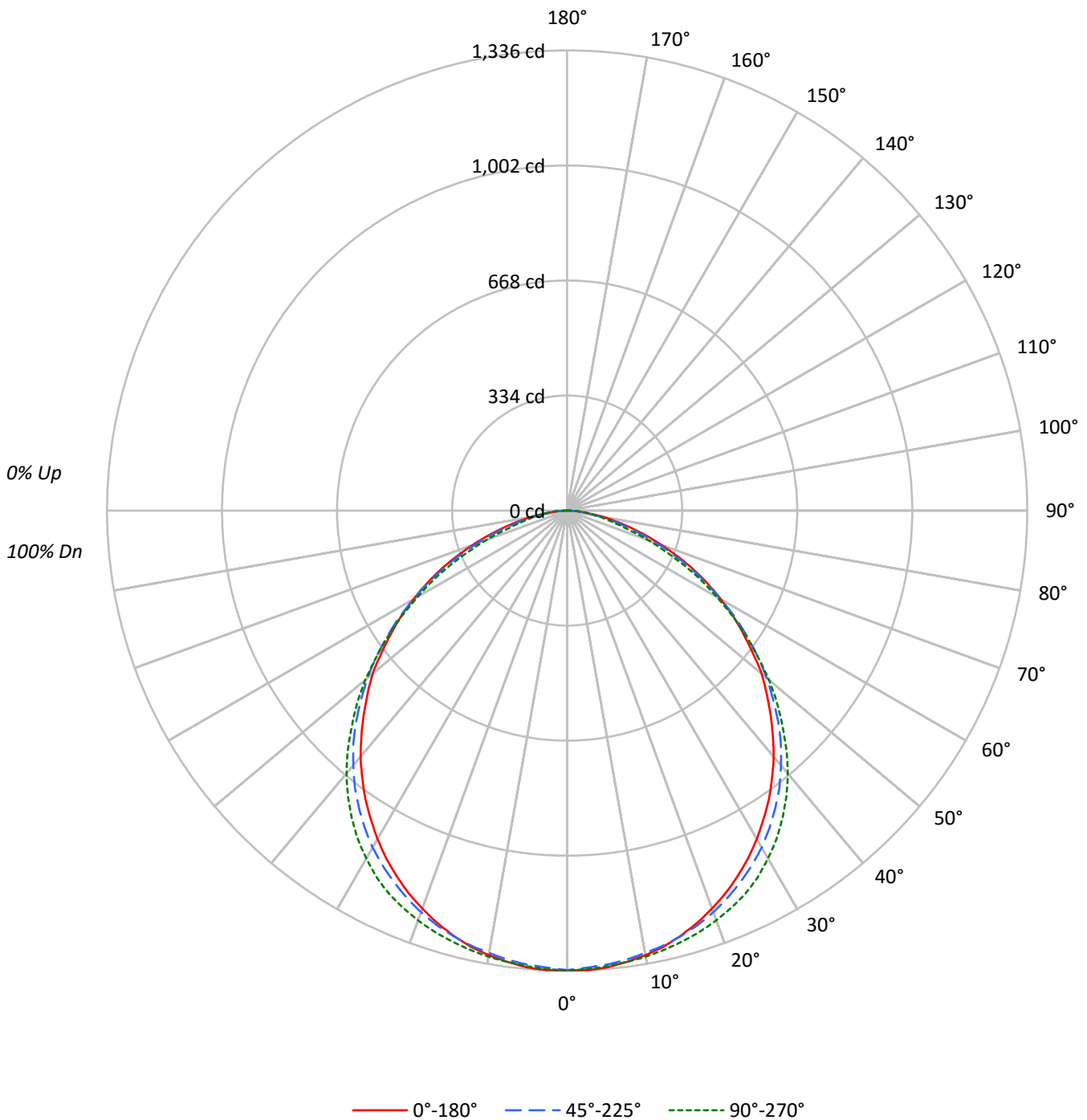
Input Watts (W): 34.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3591	3591	3591
5°	3596	3574	3587
10°	3581	3564	3594
15°	3558	3563	3607
20°	3521	3553	3626
25°	3477	3533	3641
30°	3421	3510	3624
35°	3357	3461	3581
40°	3277	3394	3500
45°	3176	3297	3363
50°	3089	3168	3201
55°	2933	2992	2977
60°	2775	2775	2699
65°	2576	2516	2374
70°	2284	2185	1972
75°	1980	1798	1518
80°	1623	1401	1378
85°	1078	1275	1371



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.2	3.6
10°-20°	362.1	10.2
20°-30°	550.4	15.5
30°-40°	659.0	18.6
40°-50°	664.7	18.7
50°-60°	566.2	16.0
60°-70°	387.2	10.9
70°-80°	185.4	5.2
80°-90°	46.9	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°	1038.7	29.3
0°-40°	1697.7	47.8
0°-60°	2928.5	82.5
0°-90°	3548.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3548.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1334	1334	1334	1334	1334	
5°	1331	1330	1323	1330	1328	126
15°	1277	1274	1279	1293	1295	360
25°	1171	1172	1190	1217	1226	539
35°	1022	1025	1054	1084	1090	638
45°	835	841	866	884	884	644
55°	625	628	638	639	635	560
65°	405	397	395	381	373	399
75°	190	187	173	151	146	203
85°	35	38	41	43	44	45
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1334.3	1334.3	1334.3	1334.3	1334.3
2.5°	1335.9	1334.3	1328.0	1334.3	1332.8
5°	1331.2	1329.6	1323.2	1329.6	1328.0
7.5°	1321.6	1320.1	1315.3	1321.6	1321.6
10°	1310.5	1307.4	1304.2	1313.7	1315.3
12.5°	1296.3	1293.1	1293.1	1304.2	1305.8
15°	1277.2	1274.0	1278.8	1293.1	1294.7
17.5°	1255.0	1253.4	1261.4	1278.8	1282.0
20°	1229.6	1228.0	1240.7	1261.4	1266.1
22.5°	1202.6	1202.6	1216.9	1240.7	1247.1
25°	1170.9	1172.5	1190.0	1216.9	1226.4
27.5°	1137.6	1140.8	1161.4	1191.5	1199.5
30°	1101.1	1105.9	1129.7	1158.2	1166.2
32.5°	1061.4	1066.2	1093.2	1123.3	1131.3
35°	1021.8	1024.9	1053.5	1083.7	1090.0
37.5°	977.4	982.1	1012.3	1039.2	1045.6
40°	932.9	937.7	966.2	991.6	996.4
42.5°	883.7	890.1	918.6	939.3	942.4
45°	834.6	840.9	866.3	883.7	883.7
47.5°	785.4	788.5	810.8	828.2	826.6
50°	737.8	736.2	756.8	764.7	764.7
52.5°	679.1	683.8	698.1	702.9	698.1
55°	625.1	628.3	637.8	639.4	634.6
57.5°	572.8	571.2	579.1	574.4	568.0
60°	515.6	515.6	515.6	510.9	501.4
62.5°	460.1	456.9	455.4	444.3	439.5
65°	404.6	396.7	395.1	380.8	372.9
67.5°	345.9	342.7	334.8	320.5	306.2
70°	290.3	287.2	277.7	260.2	250.7
72.5°	239.6	236.4	223.7	203.1	190.4
75°	190.4	187.2	172.9	150.7	146.0
77.5°	144.4	142.8	128.5	117.4	115.8
80°	104.7	103.1	90.4	90.4	88.9
82.5°	66.6	66.6	63.5	65.1	66.6
85°	34.9	38.1	41.3	42.8	44.4
87.5°	11.1	17.5	20.6	22.2	20.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)