

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: P297606

Luminaire Tested: **D3X-WD-35L82765-LD5-UNV-14-T1-W2A-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297606
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-35L82765-LD5-UNV-14-T1-W2A-5000K
Description: D3X LED 1x4 TUNABLE WHITE TROFFER
WITH ROUND PERF LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3486.0 lumens
Efficiency: N/A
Efficacy: 101.6 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

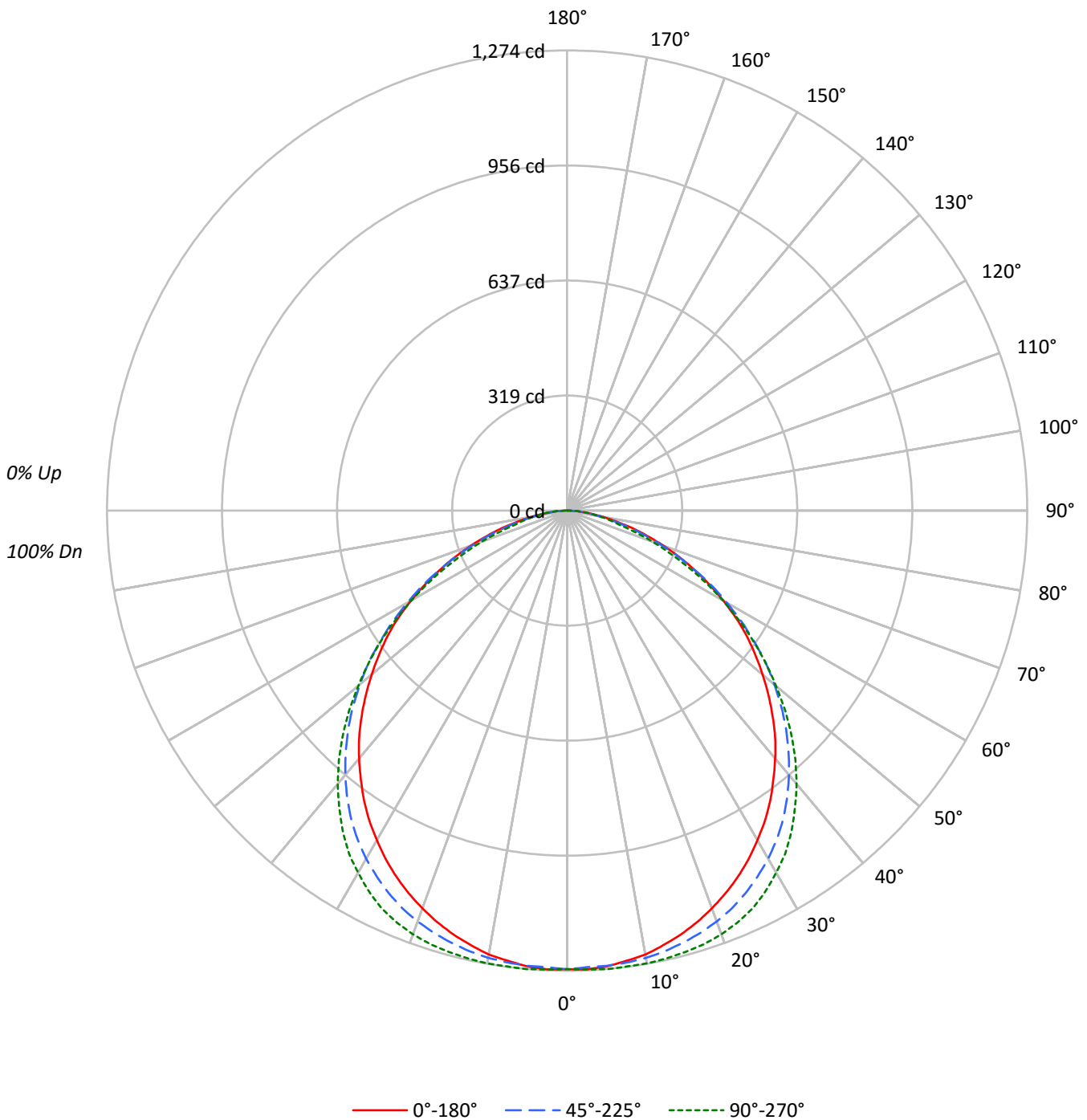
Input Watts (W): 34.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	3417	3417	3417
5°	3422	3417	3442
10°	3410	3436	3478
15°	3386	3451	3524
20°	3355	3467	3574
25°	3322	3470	3608
30°	3274	3457	3597
35°	3220	3425	3558
40°	3149	3356	3471
45°	3062	3263	3340
50°	2958	3134	3159
55°	2854	2964	2950
60°	2688	2747	2680
65°	2477	2487	2348
70°	2216	2167	1971
75°	1926	1796	1521
80°	1543	1399	1399
85°	1105	1297	1346



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.8	3.5
10°-20°	350.5	10.1
20°-30°	538.2	15.4
30°-40°	648.2	18.6
40°-50°	655.0	18.8
50°-60°	558.7	16.0
60°-70°	382.5	11.0
70°-80°	184.6	5.3
80°-90°	47.6	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°	1009.5	29.0
0°-40°	1657.7	47.6
0°-60°	2871.4	82.4
0°-90°	3486.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3486.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1270	1270	1270	1270	1270	
5°	1267	1267	1265	1273	1274	120
15°	1215	1225	1239	1260	1265	343
25°	1119	1136	1169	1203	1215	515
35°	980	1002	1043	1075	1083	613
45°	804	826	857	878	878	620
55°	608	619	632	635	629	542
65°	389	394	391	377	369	386
75°	185	185	173	152	146	197
85°	36	39	42	44	44	44
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1269.8	1269.8	1269.8	1269.8	1269.8
2.5°	1271.3	1269.8	1265.1	1271.3	1271.3
5°	1266.7	1266.7	1265.1	1272.9	1274.4
7.5°	1257.3	1260.4	1262.0	1271.3	1272.9
10°	1248.0	1251.1	1257.3	1269.8	1272.9
12.5°	1232.4	1238.6	1249.5	1266.7	1269.8
15°	1215.3	1224.6	1238.6	1260.4	1265.1
17.5°	1195.1	1207.5	1226.2	1251.1	1258.9
20°	1171.7	1185.7	1210.6	1238.6	1248.0
22.5°	1146.8	1162.4	1192.0	1224.6	1234.0
25°	1118.8	1135.9	1168.6	1202.9	1215.3
27.5°	1087.7	1106.4	1142.2	1178.0	1188.8
30°	1053.5	1073.7	1112.6	1148.4	1157.7
32.5°	1019.2	1039.5	1079.9	1114.2	1125.0
35°	980.3	1002.1	1042.6	1075.3	1083.0
37.5°	938.3	960.1	1000.6	1033.2	1036.4
40°	896.3	918.1	955.4	985.0	988.1
42.5°	852.7	873.0	907.2	932.1	935.2
45°	804.5	826.3	857.4	877.6	877.6
47.5°	756.3	778.0	804.5	818.5	818.5
50°	706.5	726.7	748.5	756.3	754.7
52.5°	656.7	675.3	694.0	695.6	692.5
55°	608.4	619.3	631.8	634.9	628.7
57.5°	555.5	564.9	572.6	568.0	563.3
60°	499.5	508.8	510.4	502.6	497.9
62.5°	445.0	452.8	452.8	440.4	432.6
65°	389.0	393.7	390.6	376.6	368.8
67.5°	336.1	339.2	333.0	319.0	306.5
70°	281.7	283.2	275.4	258.3	250.5
72.5°	231.9	233.4	224.1	203.8	194.5
75°	185.2	185.2	172.7	152.5	146.3
77.5°	138.5	143.2	129.2	118.3	118.3
80°	99.6	104.3	90.3	91.8	90.3
82.5°	65.4	70.0	65.4	65.4	65.4
85°	35.8	38.9	42.0	43.6	43.6
87.5°	10.9	18.7	20.2	21.8	24.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)