

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: P296760

Luminaire Tested: **D3X-WD-31L82765-LD5-UNV-24-T1-W2A-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296760
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-8)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WD-31L82765-LD5-UNV-24-T1-W2A-3000K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH ROUND PERF LENS
Light Source: (504) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2747.0 lumens
Efficiency: N/A
Efficacy: 130.8 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.29 / 1.36
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

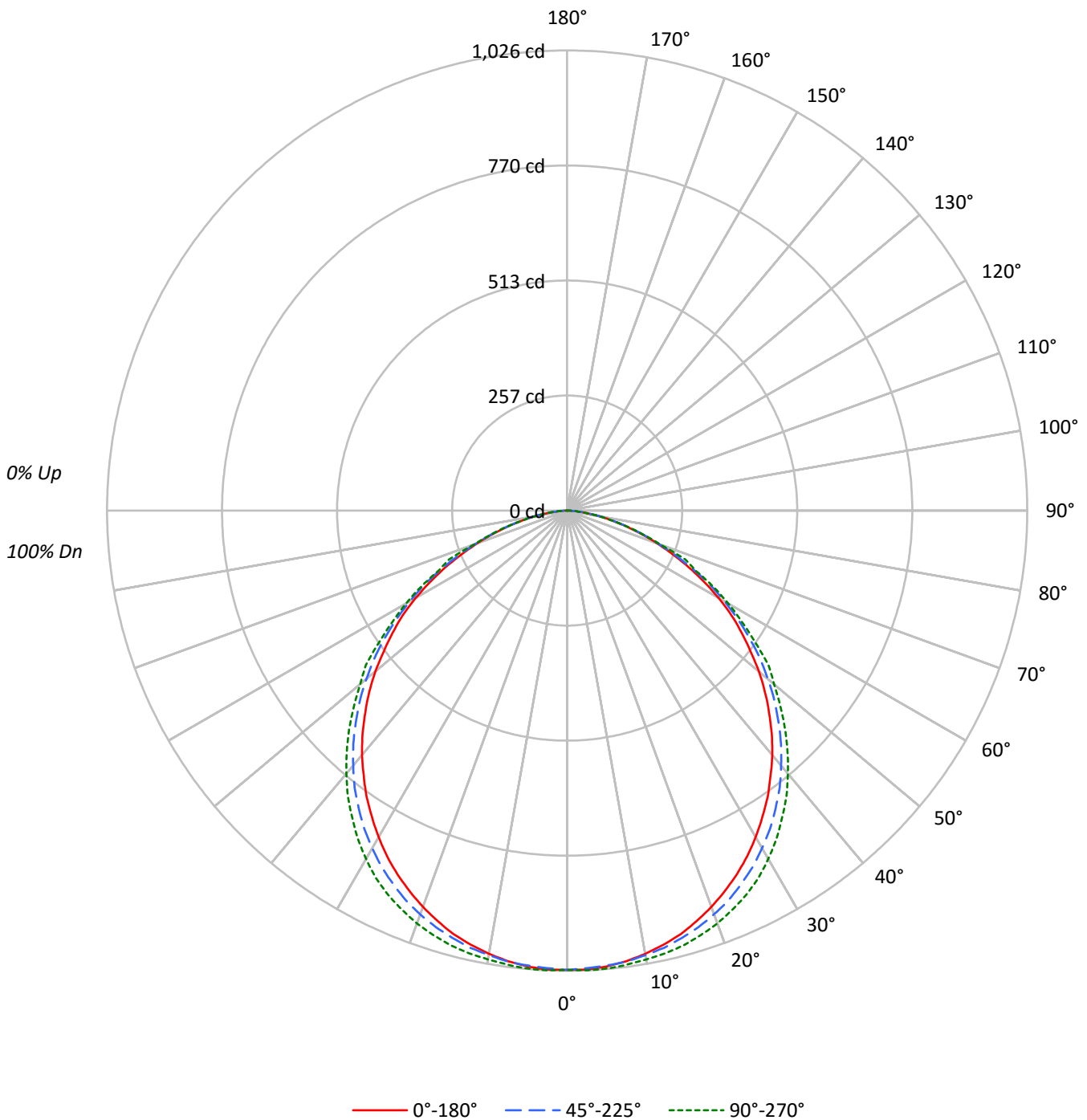
Input Watts (W): 21
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	87	81	77	83	79	75	80	77	74	72
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	28	38	32	27	37	32	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1378	1378	1378
5°	1378	1375	1384
10°	1371	1375	1388
15°	1362	1374	1398
20°	1346	1372	1403
25°	1329	1364	1403
30°	1306	1351	1393
35°	1281	1331	1373
40°	1250	1304	1345
45°	1212	1268	1307
50°	1168	1223	1261
55°	1114	1165	1200
60°	1050	1090	1116
65°	954	985	1004
70°	838	857	869
75°	707	717	723
80°	565	573	558
85°	380	395	380



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.1	3.5
10°-20°	279.1	10.2
20°-30°	423.4	15.4
30°-40°	505.6	18.4
40°-50°	511.8	18.6
50°-60°	442.4	16.1
60°-70°	306.6	11.2
70°-80°	148.4	5.4
80°-90°	32.6	1.2
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°	799.6	29.1
0°-40°	1305.1	47.5
0°-60°	2259.4	82.2
0°-90°	2747.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2747.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1024	1024	1024	1024	1024	
5°	1020	1019	1018	1023	1025	97
15°	978	980	987	998	1003	276
25°	895	901	919	937	945	412
35°	780	786	810	831	836	487
45°	637	646	666	683	687	491
55°	475	480	497	518	512	425
65°	300	303	310	314	315	297
75°	136	137	138	137	139	146
85°	25	27	26	25	25	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1024.1	1024.1	1024.1	1024.1	1024.1
2.5°	1024.1	1023.1	1021.1	1024.1	1026.0
5°	1020.1	1019.1	1018.1	1023.1	1025.0
7.5°	1013.2	1013.2	1014.2	1019.1	1021.1
10°	1003.4	1004.3	1006.3	1014.2	1016.2
12.5°	991.5	993.5	998.4	1007.3	1011.2
15°	977.7	979.7	986.6	998.4	1003.4
17.5°	960.0	963.9	973.8	987.6	992.5
20°	940.3	945.2	958.0	973.8	979.7
22.5°	918.6	923.5	940.3	957.0	963.0
25°	894.9	900.9	918.6	937.3	945.2
27.5°	869.3	876.2	895.9	915.6	923.5
30°	840.7	848.6	869.3	890.0	896.9
32.5°	810.2	818.1	841.7	861.4	868.3
35°	779.6	786.5	810.2	830.9	835.8
37.5°	745.1	753.0	778.6	796.4	803.3
40°	711.6	719.5	742.2	759.9	765.8
42.5°	675.2	683.0	705.7	722.5	727.4
45°	636.7	645.6	666.3	683.0	687.0
47.5°	598.3	605.2	626.9	641.6	644.6
50°	557.9	564.8	584.5	599.3	602.2
52.5°	515.5	526.3	542.1	552.9	565.7
55°	475.1	480.0	496.8	517.5	511.5
57.5°	434.7	437.6	451.4	460.3	462.3
60°	390.3	394.2	405.1	410.0	414.9
62.5°	344.0	346.9	359.8	364.7	366.7
65°	299.6	302.6	309.5	314.4	315.4
67.5°	254.3	257.2	263.2	267.1	284.8
70°	212.9	214.9	217.8	225.7	220.8
72.5°	173.5	174.5	177.4	177.4	178.4
75°	136.0	137.0	138.0	137.0	139.0
77.5°	101.5	103.5	104.5	103.5	102.5
80°	72.9	74.9	73.9	72.0	72.0
82.5°	47.3	48.3	47.3	46.3	46.3
85°	24.6	26.6	25.6	24.6	24.6
87.5°	8.9	9.9	10.8	11.8	11.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)