

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: P297575

Luminaire Tested: **D3X-WD-23L82765-LD5-UNV-14-T1-W2A-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297575
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-23L82765-LD5-UNV-14-T1-W2A-3000K
Description: D3X LED 1x4 TUNABLE WHITE TROFFER
WITH ROUND PERF LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2122.0 lumens
Efficiency: N/A
Efficacy: 103.5 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

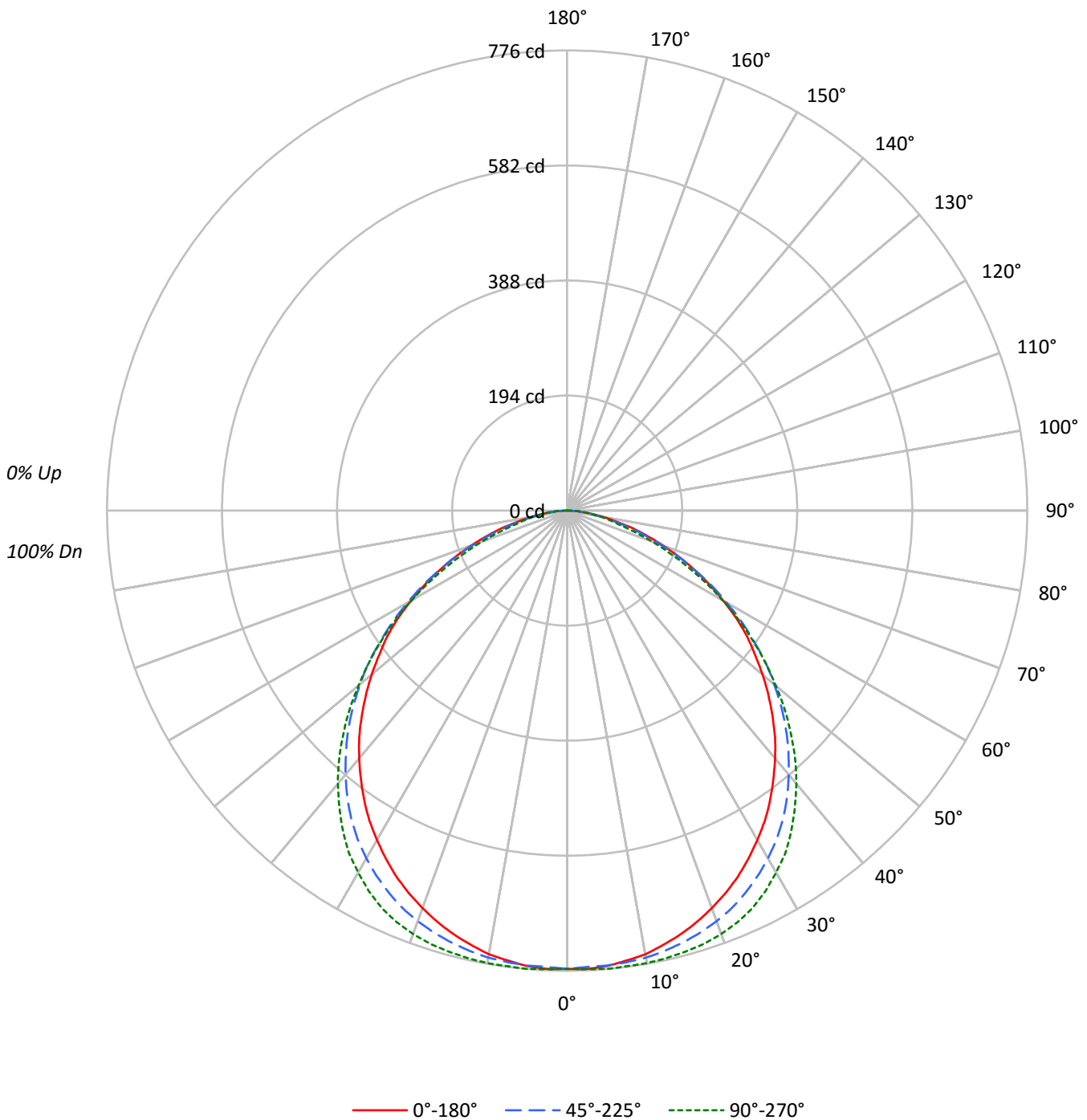
Input Watts (W): 20.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2080	2080	2080
5°	2083	2080	2096
10°	2076	2091	2117
15°	2061	2101	2145
20°	2043	2110	2176
25°	2022	2112	2197
30°	1993	2105	2190
35°	1960	2085	2166
40°	1917	2043	2113
45°	1864	1986	2033
50°	1800	1907	1923
55°	1738	1804	1795
60°	1637	1672	1631
65°	1508	1514	1429
70°	1349	1319	1200
75°	1172	1093	925
80°	939	851	851
85°	673	790	818



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.5	3.5
10°-20°	213.4	10.1
20°-30°	327.6	15.4
30°-40°	394.6	18.6
40°-50°	398.7	18.8
50°-60°	340.1	16.0
60°-70°	232.8	11.0
70°-80°	112.3	5.3
80°-90°	29.0	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°	614.5	29.0
0°-40°	1009.1	47.6
0°-60°	1747.9	82.4
0°-90°	2122.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2122.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	773	773	773	773	773	
5°	771	771	770	775	776	73
15°	740	746	754	767	770	209
25°	681	692	711	732	740	314
35°	597	610	635	654	659	373
45°	490	503	522	534	534	378
55°	370	377	385	386	383	330
65°	237	240	238	229	224	235
75°	113	113	105	93	89	120
85°	22	24	26	26	26	27
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	772.9	772.9	772.9	772.9	772.9
2.5°	773.9	772.9	770.1	773.9	773.9
5°	771.0	771.0	770.1	774.8	775.8
7.5°	765.4	767.2	768.2	773.9	774.8
10°	759.7	761.6	765.4	772.9	774.8
12.5°	750.2	754.0	760.6	771.0	772.9
15°	739.8	745.5	754.0	767.2	770.1
17.5°	727.5	735.0	746.4	761.6	766.3
20°	713.3	721.8	736.9	754.0	759.7
22.5°	698.1	707.6	725.6	745.5	751.1
25°	681.1	691.5	711.4	732.2	739.8
27.5°	662.1	673.5	695.3	717.0	723.7
30°	641.3	653.6	677.3	699.0	704.7
32.5°	620.4	632.7	657.4	678.2	684.8
35°	596.7	610.0	634.6	654.5	659.3
37.5°	571.2	584.4	609.1	629.0	630.8
40°	545.6	558.9	581.6	599.6	601.5
42.5°	519.1	531.4	552.2	567.4	569.3
45°	489.7	503.0	521.9	534.2	534.2
47.5°	460.3	473.6	489.7	498.2	498.2
50°	430.0	442.4	455.6	460.3	459.4
52.5°	399.7	411.1	422.5	423.4	421.5
55°	370.4	377.0	384.6	386.5	382.7
57.5°	338.2	343.8	348.6	345.7	342.9
60°	304.1	309.7	310.7	306.0	303.1
62.5°	270.9	275.6	275.6	268.1	263.3
65°	236.8	239.6	237.8	229.2	224.5
67.5°	204.6	206.5	202.7	194.2	186.6
70°	171.4	172.4	167.7	157.2	152.5
72.5°	141.1	142.1	136.4	124.1	118.4
75°	112.7	112.7	105.1	92.8	89.0
77.5°	84.3	87.1	78.6	72.0	72.0
80°	60.6	63.5	54.9	55.9	54.9
82.5°	39.8	42.6	39.8	39.8	39.8
85°	21.8	23.7	25.6	26.5	26.5
87.5°	6.6	11.4	12.3	13.3	15.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)