

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: P298339

Luminaire Tested: **D3X-WO-20L82765-LD5-UNV-22-T1-W2A-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P298339
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-4)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WO-20L82765-LD5-UNV-22-T1-W2A-4500K
Description: D3X LED 2x2 TUNABLE WHITE TROFFER
WITH OPAL LENS
Light Source: (252) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2038.0 lumens
Efficiency: N/A
Efficacy: 129.8 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.27 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

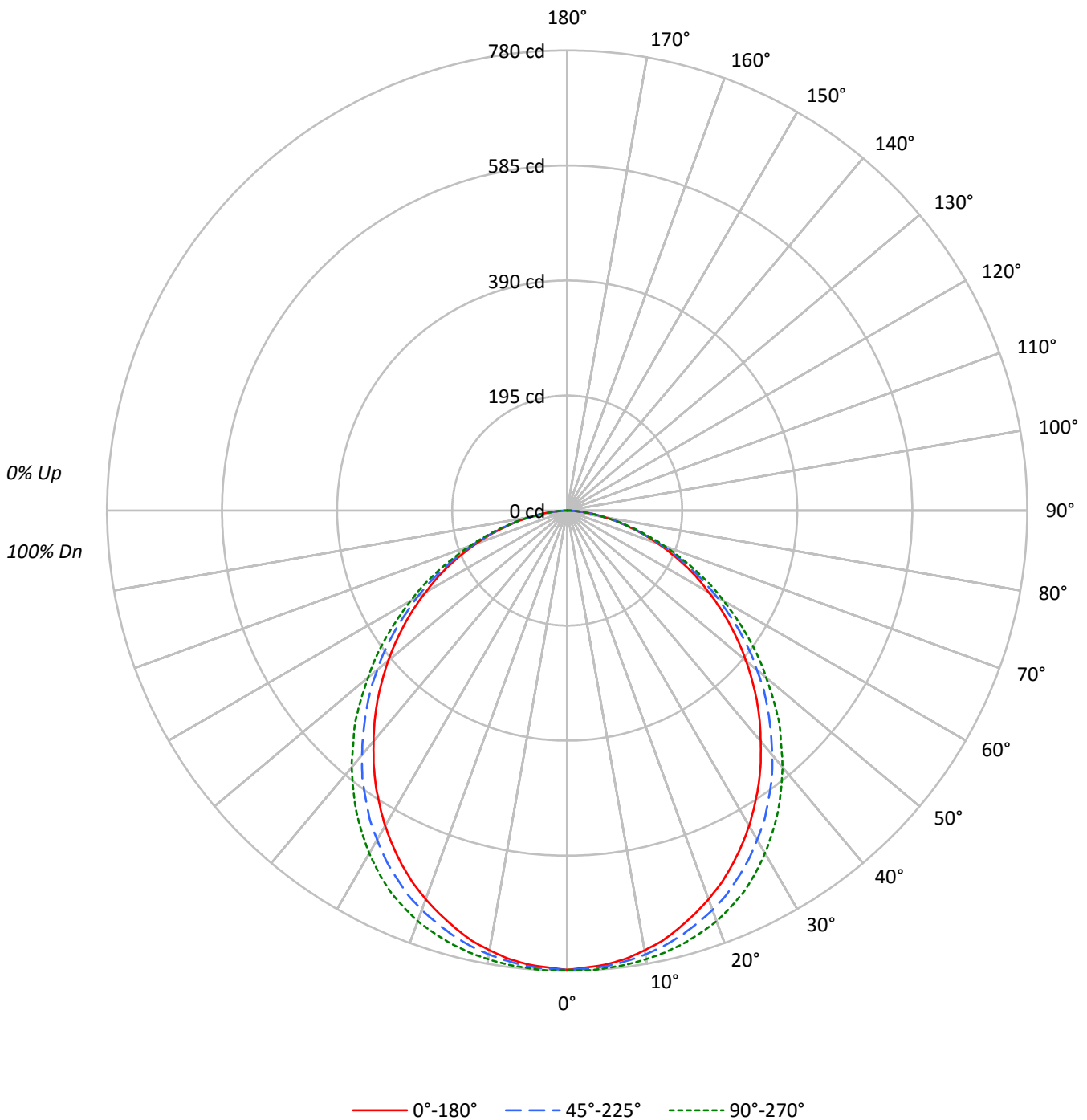
Input Watts (W): 15.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	102	99	95	98	95	92		94	92	89		91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77		83	79	75		80	76	73	71
3	91	81	73	67	89	79	72	66	76	70	65		74	68	64		71	66	63	60
4	84	72	63	57	81	70	62	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	31	43	35	30		41	35	30		40	34	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°	2094	2094	2094
5°	2086	2094	2102
10°	2068	2088	2110
15°	2041	2078	2117
20°	2008	2063	2121
25°	1967	2037	2112
30°	1917	2002	2084
35°	1860	1957	2047
40°	1793	1900	1996
45°	1730	1834	1935
50°	1657	1759	1844
55°	1581	1676	1757
60°	1491	1579	1649
65°	1408	1460	1531
70°	1293	1334	1381
75°	1150	1181	1213
80°	990	975	975
85°	753	689	627



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.6	3.6
10°-20°	210.4	10.3
20°-30°	316.0	15.5
30°-40°	371.9	18.2
40°-50°	370.9	18.2
50°-60°	318.3	15.6
60°-70°	228.0	11.2
70°-80°	120.7	5.9
80°-90°	28.2	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°	600.0	29.4
0°-40°	971.9	47.7
0°-60°	1661.1	81.5
0°-90°	2038.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2038.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	778	778	778	778	778	
5°	772	772	775	777	778	73
15°	733	736	746	756	760	207
25°	663	669	686	703	711	305
35°	566	573	596	616	623	354
45°	455	462	482	499	508	350
55°	337	342	357	369	374	301
65°	221	222	229	238	240	218
75°	111	111	114	116	117	119
85°	24	23	22	20	20	29
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	778.3	778.3	778.3	778.3	778.3
2.5°	775.2	775.2	777.3	779.3	780.3
5°	772.2	772.2	775.2	777.3	778.3
7.5°	766.1	766.1	770.2	774.2	776.3
10°	757.0	759.0	764.1	770.2	772.2
12.5°	746.8	748.9	756.0	764.1	767.1
15°	732.6	735.7	745.8	756.0	760.0
17.5°	717.4	721.5	733.6	745.8	750.9
20°	701.2	705.2	720.5	734.7	740.7
22.5°	682.9	688.0	705.2	720.5	726.5
25°	662.6	668.7	686.0	703.2	711.3
27.5°	640.3	647.4	666.7	684.9	692.0
30°	617.0	625.1	644.4	663.6	670.7
32.5°	591.6	598.7	622.0	640.3	647.4
35°	566.2	573.3	595.6	615.9	623.0
37.5°	538.8	548.0	570.3	588.5	595.6
40°	510.4	519.5	540.8	562.2	568.2
42.5°	483.0	491.1	511.4	530.7	536.8
45°	454.6	461.7	482.0	499.2	508.4
47.5°	425.2	432.3	452.6	468.8	473.9
50°	395.7	402.8	420.1	434.3	440.4
52.5°	366.3	373.4	389.7	402.8	408.9
55°	336.9	342.0	357.2	369.4	374.4
57.5°	307.5	311.5	323.7	336.9	339.9
60°	277.0	282.1	293.3	302.4	306.4
62.5°	249.6	251.7	261.8	269.9	275.0
65°	221.2	222.2	229.3	238.5	240.5
67.5°	191.8	192.8	199.9	205.0	207.0
70°	164.4	164.4	169.5	173.5	175.5
72.5°	138.0	137.0	140.0	144.1	146.1
75°	110.6	110.6	113.6	115.7	116.7
77.5°	87.3	85.2	87.3	89.3	89.3
80°	63.9	62.9	62.9	63.9	62.9
82.5°	43.6	42.6	43.6	41.6	40.6
85°	24.4	23.3	22.3	20.3	20.3
87.5°	8.1	7.1	7.1	8.1	8.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)