

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: P298172

Luminaire Tested: **D3X-WG-20L82765-LD5-UNV-22-T1-W2A-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P298172
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-6)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WG-20L82765-LD5-UNV-22-T1-W2A-5000K
Description: D3X LED 2x2 TUNABLE WHITE TROFFER
WITH RECTANGULAR PERF LENS
Light Source: (252) 80 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1938.0 lumens
Efficiency: N/A
Efficacy: 122.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.3 / 1.35
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

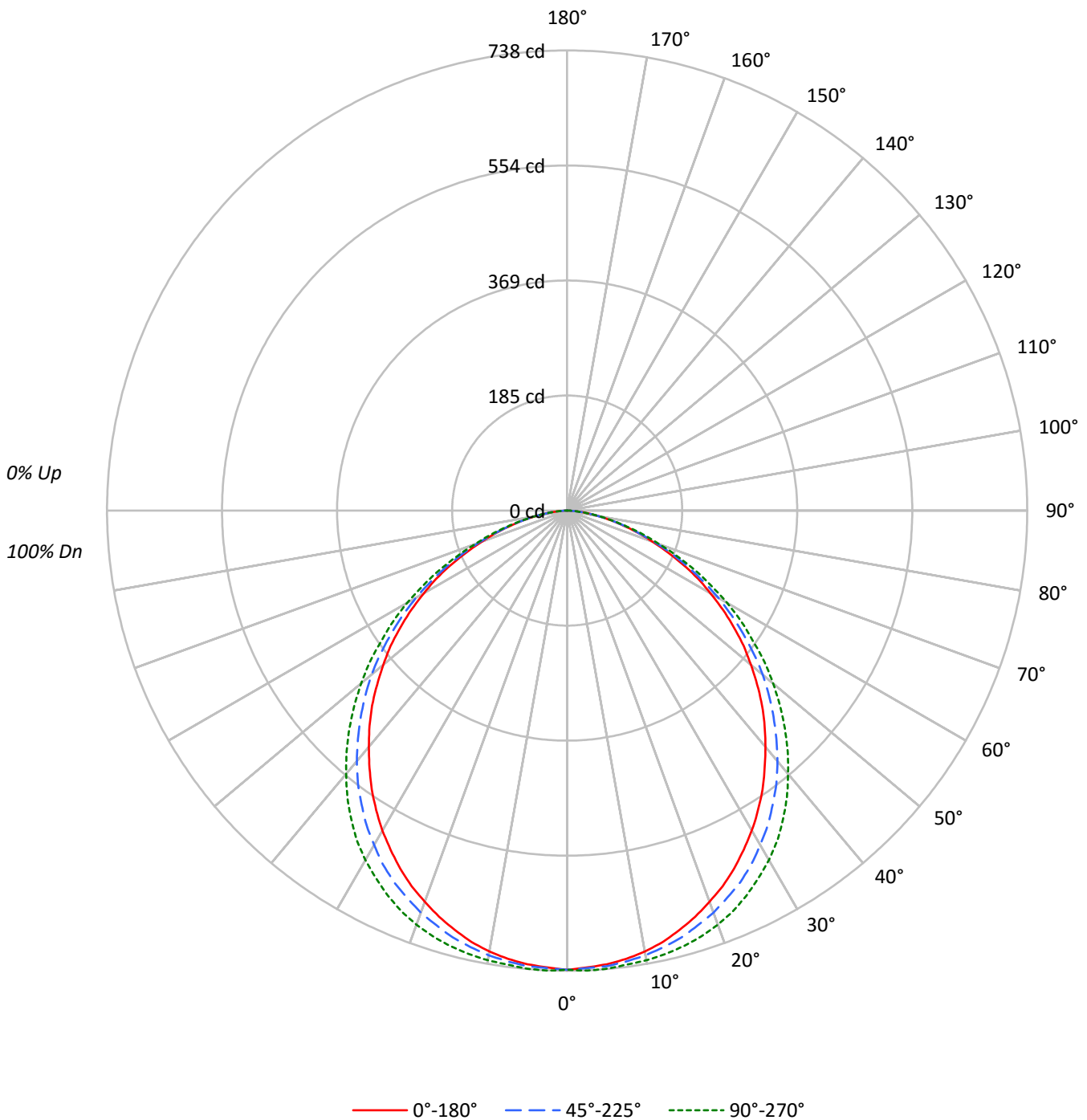
Input Watts (W): 15.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85					85			
2	100	92	86	80	97	90	84	79	87	82	77	83	79	76	80	77	74	72					72			
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	61					61			
4	84	72	64	57	82	71	63	57	68	61	56	66	60	55	64	59	54	52					52			
5	77	65	56	49	75	64	55	49	61	54	49	59	53	48	58	52	48	45					45			
6	71	58	50	43	69	57	49	43	56	48	43	54	47	42	52	47	42	40					40			
7	66	53	44	38	64	52	44	38	51	43	38	49	43	38	48	42	37	35					35			
8	62	48	40	34	60	48	40	34	46	39	34	45	39	34	44	38	34	32					32			
9	58	44	36	31	56	44	36	31	43	36	31	42	35	30	41	35	30	28					28			
10	54	41	33	28	53	40	33	28	40	33	28	39	32	28	38	32	28	26					26			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1982	1982	1982
5°	1973	1981	1992
10°	1962	1979	2001
15°	1940	1974	2014
20°	1912	1965	2024
25°	1881	1952	2022
30°	1841	1924	2010
35°	1794	1889	1984
40°	1738	1843	1937
45°	1683	1781	1879
50°	1611	1714	1804
55°	1530	1617	1704
60°	1428	1506	1594
65°	1303	1363	1441
70°	1141	1190	1238
75°	973	995	1038
80°	781	797	814
85°	571	540	509



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.7	3.6
10°-20°	200.1	10.3
20°-30°	302.5	15.6
30°-40°	359.3	18.5
40°-50°	360.7	18.6
50°-60°	308.1	15.9
60°-70°	212.3	11.0
70°-80°	102.9	5.3
80°-90°	22.5	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°	572.3	29.5
0°-40°	931.5	48.1
0°-60°	1600.3	82.6
0°-90°	1938.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1938.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	736	736	736	736	736	
5°	730	730	733	736	738	69
15°	696	700	709	718	723	196
25°	634	639	657	675	681	292
35°	546	554	575	597	604	341
45°	442	448	468	488	494	340
55°	326	331	345	359	363	292
65°	205	205	214	223	226	203
75°	94	92	96	98	100	101
85°	18	18	18	16	16	23
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	736.5	736.5	736.5	736.5	736.5
2.5°	733.4	733.4	734.4	737.5	738.5
5°	730.3	730.3	733.4	735.5	737.5
7.5°	725.2	726.2	729.3	733.4	734.4
10°	718.0	719.0	724.1	729.3	732.4
12.5°	708.7	710.8	716.9	725.2	728.3
15°	696.4	699.5	708.7	718.0	723.1
17.5°	683.0	687.1	697.4	710.8	715.9
20°	667.6	672.7	686.1	700.5	706.7
22.5°	652.1	656.3	671.7	688.1	695.3
25°	633.6	638.8	657.3	674.8	680.9
27.5°	613.1	620.3	639.8	658.3	664.5
30°	592.5	598.7	619.2	639.8	647.0
32.5°	569.8	576.0	598.7	619.2	627.5
35°	546.2	554.4	575.0	596.6	603.8
37.5°	520.5	529.7	551.3	569.8	579.1
40°	494.8	503.0	524.6	544.1	551.3
42.5°	469.0	476.2	496.8	517.4	523.6
45°	442.3	448.5	468.0	487.6	493.7
47.5°	413.5	420.7	439.2	455.7	462.9
50°	384.7	391.9	409.4	424.8	431.0
52.5°	356.9	361.0	377.5	391.9	399.1
55°	326.1	331.2	344.6	359.0	363.1
57.5°	296.2	299.3	312.7	325.0	331.2
60°	265.4	267.4	279.8	289.0	296.2
62.5°	236.6	236.6	245.8	256.1	260.2
65°	204.7	204.7	214.0	223.2	226.3
67.5°	173.8	175.9	182.1	189.3	191.3
70°	145.0	145.0	151.2	156.3	157.4
72.5°	119.3	118.3	121.4	125.5	127.5
75°	93.6	91.5	95.7	97.7	99.8
77.5°	71.0	69.9	72.0	74.1	74.1
80°	50.4	49.4	51.4	51.4	52.5
82.5°	32.9	33.9	33.9	32.9	31.9
85°	18.5	18.5	17.5	16.5	16.5
87.5°	6.2	6.2	6.2	7.2	7.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)