

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: P298305

Luminaire Tested: **D3X-WO-20L83050-LD5-UNV-22-T1-W2A-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P298305
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-20L83050-LD5-UNV-22-T1-W2A-3000K
Description: D3X LED 2x2 TUNABLE WHITE TROFFER
WITH OPAL LENS
Light Source: (252) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1896.0 lumens
Efficiency: N/A
Efficacy: 123.1 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

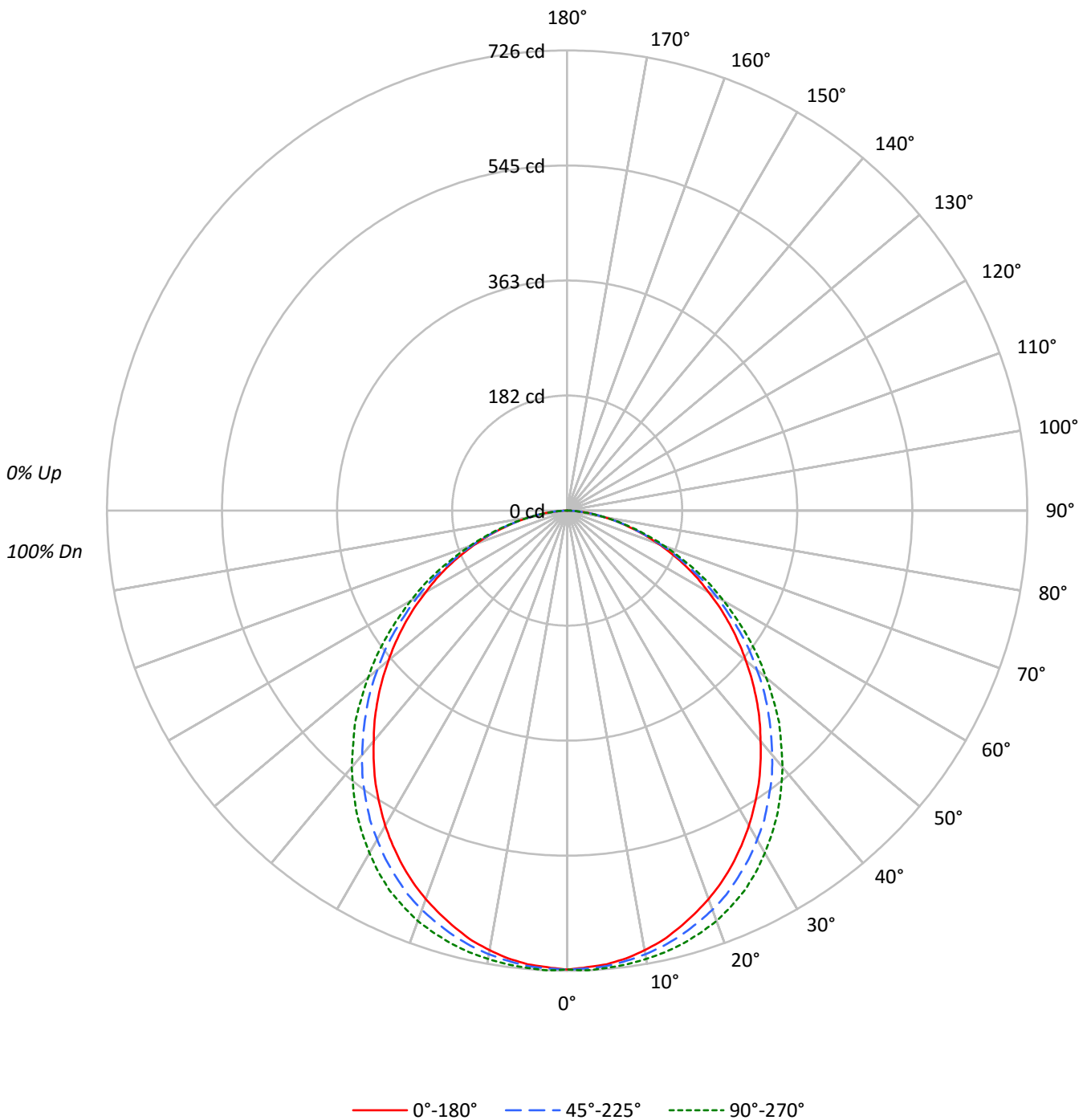
Input Watts (W): 15.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1949	1949	1949
5°	1941	1948	1956
10°	1924	1942	1963
15°	1899	1933	1970
20°	1868	1920	1973
25°	1830	1895	1965
30°	1784	1863	1939
35°	1731	1820	1904
40°	1668	1768	1857
45°	1609	1706	1800
50°	1541	1636	1715
55°	1470	1559	1634
60°	1387	1468	1534
65°	1310	1358	1424
70°	1203	1241	1285
75°	1070	1099	1129
80°	922	907	907
85°	701	642	584



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.5	3.6
10°-20°	195.8	10.3
20°-30°	293.9	15.5
30°-40°	346.0	18.2
40°-50°	345.1	18.2
50°-60°	296.1	15.6
60°-70°	212.1	11.2
70°-80°	112.3	5.9
80°-90°	26.3	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°	558.2	29.4
0°-40°	904.2	47.7
0°-60°	1545.3	81.5
0°-90°	1896.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1896.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	724	724	724	724	724	
5°	718	718	721	723	724	68
15°	682	684	694	703	707	192
25°	616	622	638	654	662	284
35°	527	533	554	573	580	329
45°	423	430	448	464	473	326
55°	313	318	332	344	348	280
65°	206	207	213	222	224	203
75°	103	103	106	108	109	110
85°	23	22	21	19	19	27
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	724.1	724.1	724.1	724.1	724.1
2.5°	721.2	721.2	723.1	725.0	726.0
5°	718.4	718.4	721.2	723.1	724.1
7.5°	712.7	712.7	716.5	720.3	722.2
10°	704.2	706.1	710.8	716.5	718.4
12.5°	694.8	696.7	703.3	710.8	713.7
15°	681.6	684.4	693.9	703.3	707.1
17.5°	667.4	671.2	682.5	693.9	698.6
20°	652.3	656.1	670.3	683.5	689.1
22.5°	635.3	640.0	656.1	670.3	675.9
25°	616.4	622.1	638.2	654.2	661.8
27.5°	595.7	602.3	620.2	637.2	643.8
30°	574.0	581.5	599.5	617.4	624.0
32.5°	550.4	557.0	578.7	595.7	602.3
35°	526.8	533.4	554.1	573.0	579.6
37.5°	501.3	509.8	530.5	547.5	554.1
40°	474.8	483.3	503.2	523.0	528.7
42.5°	449.4	456.9	475.8	493.7	499.4
45°	422.9	429.5	448.4	464.5	473.0
47.5°	395.5	402.2	421.0	436.1	440.9
50°	368.2	374.8	390.8	404.0	409.7
52.5°	340.8	347.4	362.5	374.8	380.4
55°	313.4	318.1	332.3	343.6	348.3
57.5°	286.0	289.8	301.1	313.4	316.2
60°	257.7	262.4	272.8	281.3	285.1
62.5°	232.2	234.1	243.6	251.1	255.8
65°	205.8	206.7	213.3	221.8	223.7
67.5°	178.4	179.4	186.0	190.7	192.6
70°	152.9	152.9	157.7	161.4	163.3
72.5°	128.4	127.4	130.3	134.1	135.9
75°	102.9	102.9	105.7	107.6	108.6
77.5°	81.2	79.3	81.2	83.1	83.1
80°	59.5	58.5	58.5	59.5	58.5
82.5°	40.6	39.6	40.6	38.7	37.8
85°	22.7	21.7	20.8	18.9	18.9
87.5°	7.6	6.6	6.6	7.6	7.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)