

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: P298399

Luminaire Tested: **D3X-WO-31L93050-LD5-UNV-22-T1-W2A-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P298399
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-31L93050-LD5-UNV-22-T1-W2A-3000K
Description: D3X LED 2x2 TUNABLE WHITE TROFFER
WITH OPAL LENS
Light Source: (252) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2447.0 lumens
Efficiency: N/A
Efficacy: 97.9 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

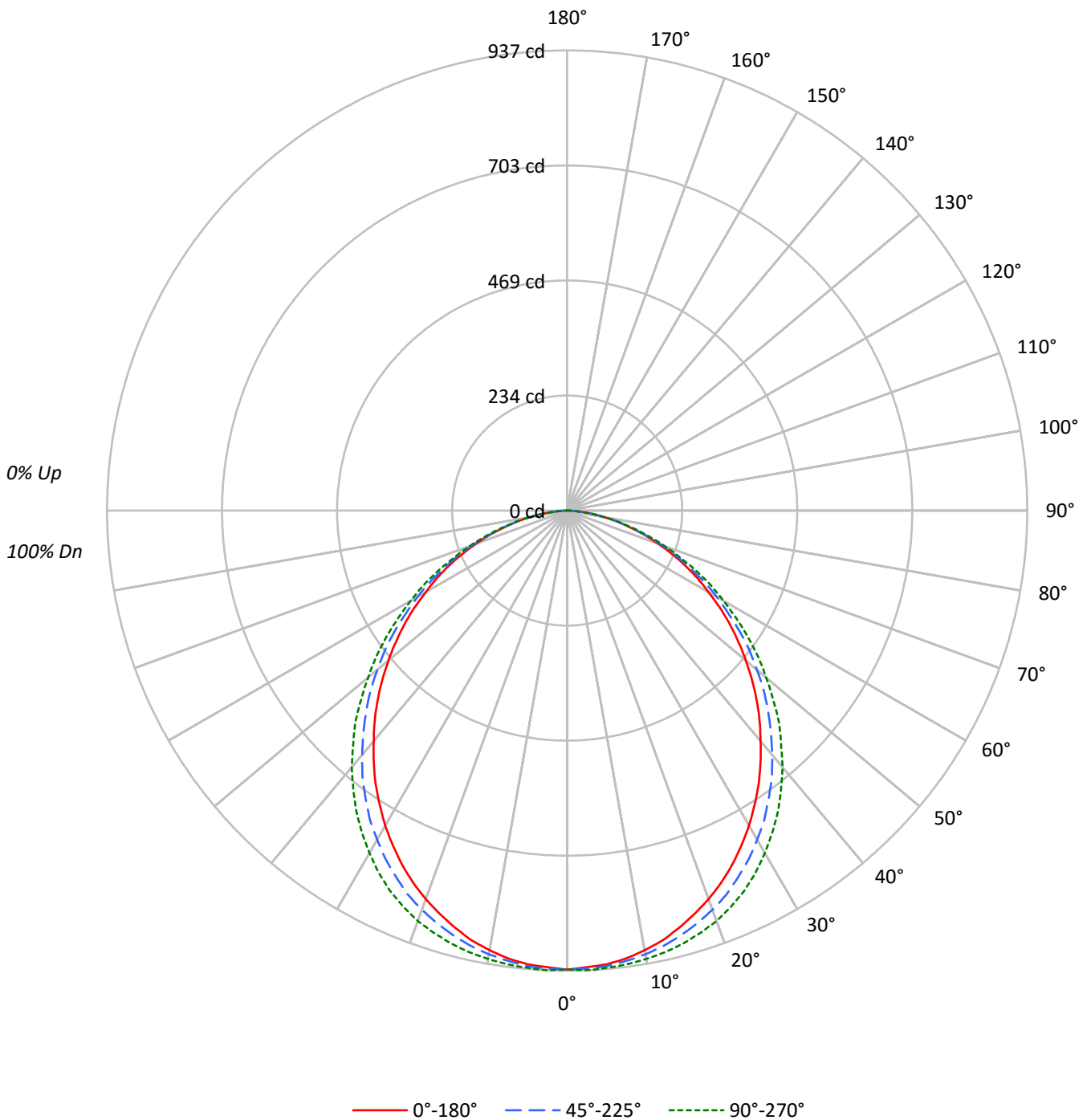
Input Watts (W): 25
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2515	2515	2515
5°	2505	2514	2524
10°	2484	2507	2534
15°	2451	2495	2542
20°	2411	2477	2547
25°	2362	2445	2536
30°	2302	2404	2502
35°	2233	2349	2458
40°	2153	2281	2397
45°	2077	2202	2323
50°	1989	2112	2214
55°	1898	2012	2109
60°	1790	1895	1980
65°	1691	1754	1839
70°	1553	1601	1659
75°	1381	1419	1457
80°	1190	1170	1170
85°	902	827	753



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.4	3.6
10°-20°	252.7	10.3
20°-30°	379.4	15.5
30°-40°	446.5	18.2
40°-50°	445.3	18.2
50°-60°	382.2	15.6
60°-70°	273.7	11.2
70°-80°	145.0	5.9
80°-90°	33.9	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°	720.5	29.4
0°-40°	1166.9	47.7
0°-60°	1994.5	81.5
0°-90°	2447.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2447.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	934	934	934	934	934	
5°	927	927	931	933	934	88
15°	880	883	896	908	913	248
25°	796	803	824	844	854	366
35°	680	688	715	740	748	425
45°	546	554	579	599	610	421
55°	404	411	429	444	450	362
65°	266	267	275	286	289	262
75°	133	133	136	139	140	142
85°	29	28	27	24	24	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	934.5	934.5	934.5	934.5	934.5
2.5°	930.8	930.8	933.3	935.7	936.9
5°	927.2	927.2	930.8	933.3	934.5
7.5°	919.9	919.9	924.7	929.6	932.1
10°	908.9	911.3	917.4	924.7	927.2
12.5°	896.7	899.2	907.7	917.4	921.1
15°	879.7	883.3	895.5	907.7	912.6
17.5°	861.4	866.3	880.9	895.5	901.6
20°	841.9	846.8	865.0	882.1	889.4
22.5°	820.0	826.1	846.8	865.0	872.4
25°	795.6	802.9	823.6	844.3	854.1
27.5°	768.8	777.3	800.5	822.4	830.9
30°	740.8	750.5	773.7	796.8	805.3
32.5°	710.3	718.8	746.9	768.8	777.3
35°	679.8	688.4	715.2	739.5	748.1
37.5°	647.0	657.9	684.7	706.7	715.2
40°	612.8	623.8	649.4	675.0	682.3
42.5°	579.9	589.7	614.1	637.2	644.5
45°	545.8	554.4	578.7	599.4	610.4
47.5°	510.5	519.0	543.4	562.9	569.0
50°	475.2	483.7	504.4	521.5	528.8
52.5°	439.8	448.4	467.9	483.7	491.0
55°	404.5	410.6	428.9	443.5	449.6
57.5°	369.2	374.0	388.7	404.5	408.2
60°	332.6	338.7	352.1	363.1	367.9
62.5°	299.7	302.2	314.3	324.1	330.2
65°	265.6	266.8	275.4	286.3	288.8
67.5°	230.3	231.5	240.0	246.1	248.5
70°	197.4	197.4	203.5	208.3	210.8
72.5°	165.7	164.5	168.1	173.0	175.4
75°	132.8	132.8	136.5	138.9	140.1
77.5°	104.8	102.3	104.8	107.2	107.2
80°	76.8	75.5	75.5	76.8	75.5
82.5°	52.4	51.2	52.4	50.0	48.7
85°	29.2	28.0	26.8	24.4	24.4
87.5°	9.7	8.5	8.5	9.7	9.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)