

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: P298341

Luminaire Tested: **D3X-WO-20L82765-LD5-UNV-22-T1-W2A-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P298341
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-5500K
Description: D3X LED 2x2 TUNABLE WHITE TROFFER
WITH OPAL LENS
Light Source: (252) 80 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2086.0 lumens
Efficiency: N/A
Efficacy: 131.2 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

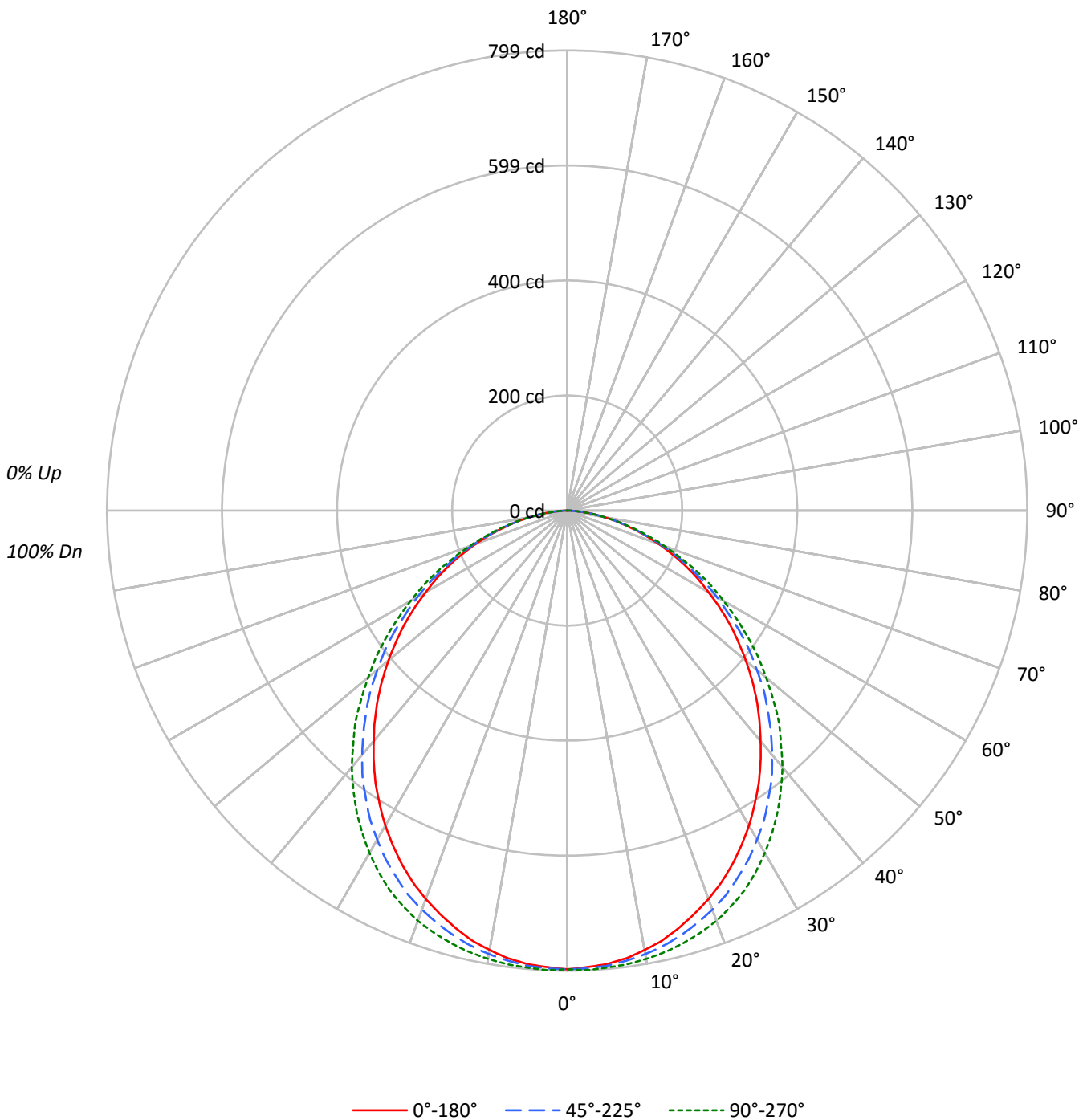
Input Watts (W): 15.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2144	2144	2144
5°	2135	2143	2152
10°	2117	2137	2160
15°	2089	2127	2167
20°	2055	2112	2171
25°	2014	2085	2162
30°	1962	2049	2133
35°	1904	2003	2095
40°	1835	1945	2043
45°	1771	1877	1980
50°	1696	1800	1887
55°	1618	1715	1798
60°	1526	1616	1688
65°	1442	1494	1568
70°	1324	1365	1414
75°	1177	1209	1241
80°	1013	998	998
85°	769	704	642



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.4	3.6
10°-20°	215.4	10.3
20°-30°	323.4	15.5
30°-40°	380.6	18.2
40°-50°	379.6	18.2
50°-60°	325.8	15.6
60°-70°	233.3	11.2
70°-80°	123.6	5.9
80°-90°	28.9	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°	614.2	29.4
0°-40°	994.8	47.7
0°-60°	1700.2	81.5
0°-90°	2086.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2086.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	797	797	797	797	797	
5°	790	790	794	796	797	75
15°	750	753	763	774	778	211
25°	678	684	702	720	728	312
35°	580	587	610	630	638	362
45°	465	473	493	511	520	359
55°	345	350	366	378	383	308
65°	226	228	235	244	246	224
75°	113	113	116	118	119	121
85°	25	24	23	21	21	30
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	796.6	796.6	796.6	796.6	796.6
2.5°	793.5	793.5	795.6	797.7	798.7
5°	790.4	790.4	793.5	795.6	796.6
7.5°	784.2	784.2	788.3	792.5	794.5
10°	774.8	776.9	782.1	788.3	790.4
12.5°	764.4	766.5	773.8	782.1	785.2
15°	749.9	753.0	763.4	773.8	777.9
17.5°	734.3	738.5	750.9	763.4	768.6
20°	717.7	721.8	737.4	752.0	758.2
22.5°	699.0	704.2	721.8	737.4	743.7
25°	678.2	684.5	702.1	719.8	728.1
27.5°	655.4	662.6	682.4	701.1	708.3
30°	631.5	639.8	659.5	679.3	686.5
32.5°	605.5	612.8	636.7	655.4	662.6
35°	579.6	586.8	609.7	630.4	637.7
37.5°	551.5	560.9	583.7	602.4	609.7
40°	522.4	531.8	553.6	575.4	581.6
42.5°	494.4	502.7	523.5	543.2	549.4
45°	465.3	472.6	493.3	511.0	520.4
47.5°	435.2	442.5	463.2	479.8	485.0
50°	405.1	412.3	430.0	444.5	450.8
52.5°	374.9	382.2	398.8	412.3	418.6
55°	344.8	350.0	365.6	378.1	383.3
57.5°	314.7	318.9	331.3	344.8	347.9
60°	283.5	288.7	300.2	309.5	313.7
62.5°	255.5	257.6	268.0	276.3	281.5
65°	226.4	227.5	234.7	244.1	246.2
67.5°	196.3	197.3	204.6	209.8	211.9
70°	168.3	168.3	173.5	177.6	179.7
72.5°	141.3	140.2	143.3	147.5	149.6
75°	113.2	113.2	116.3	118.4	119.4
77.5°	89.3	87.2	89.3	91.4	91.4
80°	65.4	64.4	64.4	65.4	64.4
82.5°	44.7	43.6	44.7	42.6	41.5
85°	24.9	23.9	22.8	20.8	20.8
87.5°	8.3	7.3	7.3	8.3	8.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)