

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: P298063

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P298063
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-5)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WD-31L93050-LD5-UNV-22-T1-W2A-3000K
Description: D3X LED 2x2 TUNABLE WHITE TROFFER
WITH ROUND PERF LENS
Light Source: (252) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2264.0 lumens
Efficiency: N/A
Efficacy: 90.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.32 / 1.37
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

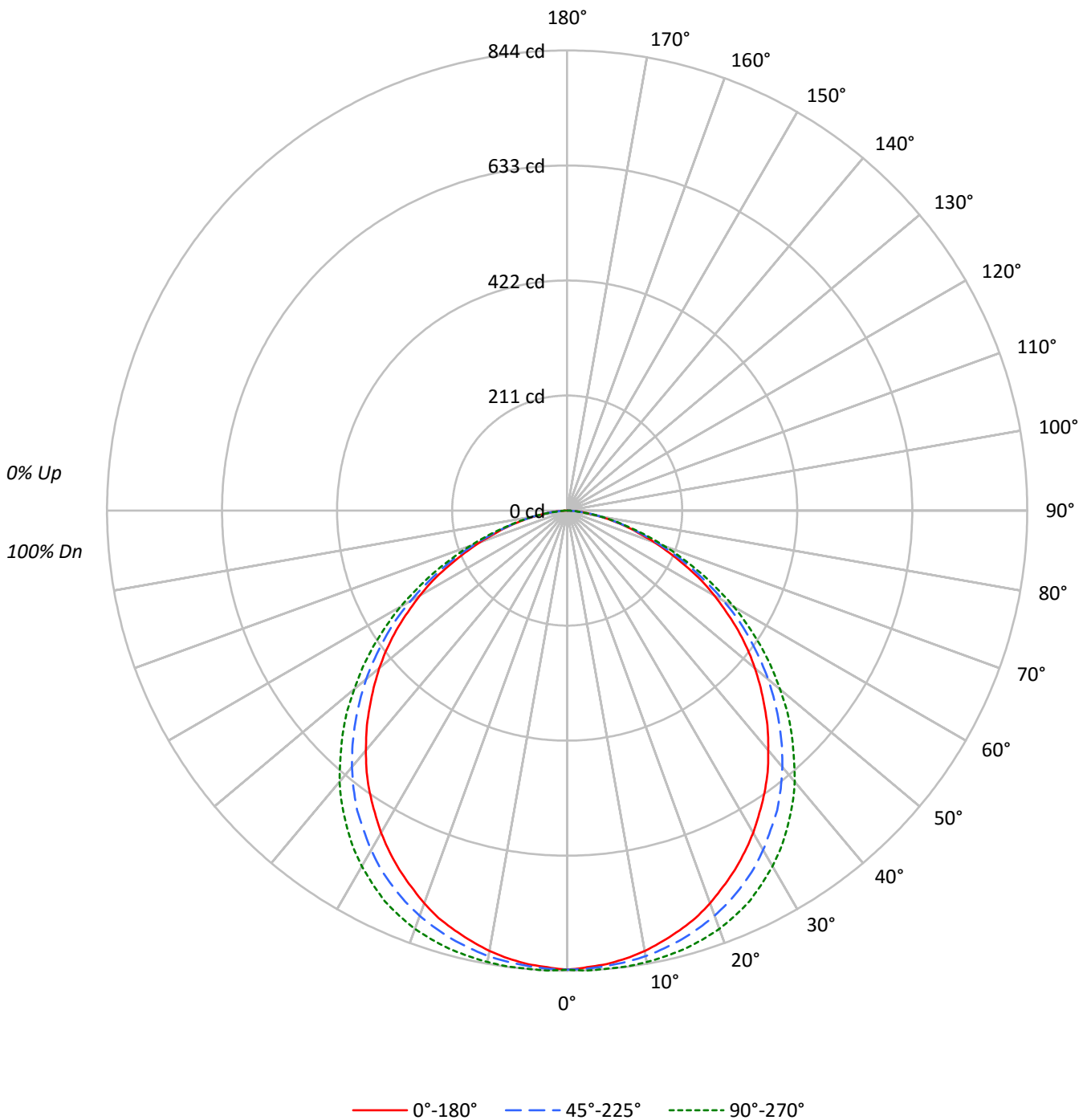
Input Watts (W): 25
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	103	99	96	98	95	93	95	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	87	81	77	83	79	75	80	77	74	72
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63	61
4	84	72	63	57	81	71	63	57	68	61	56	66	60	55	64	59	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	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	27	37	32	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2266	2266	2266
5°	2255	2265	2278
10°	2241	2268	2298
15°	2220	2268	2319
20°	2195	2265	2338
25°	2160	2254	2348
30°	2120	2234	2340
35°	2074	2206	2318
40°	2016	2158	2282
45°	1952	2092	2217
50°	1883	2015	2133
55°	1795	1915	2035
60°	1679	1784	1902
65°	1521	1614	1715
70°	1342	1409	1486
75°	1153	1178	1229
80°	925	944	964
85°	676	602	602



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.8	3.5
10°-20°	229.9	10.2
20°-30°	349.6	15.4
30°-40°	418.3	18.5
40°-50°	422.9	18.7
50°-60°	363.9	16.1
60°-70°	251.3	11.1
70°-80°	121.8	5.4
80°-90°	26.4	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°	659.3	29.1
0°-40°	1077.6	47.6
0°-60°	1864.5	82.4
0°-90°	2264.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2264.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	842	842	842	842	842	
5°	835	836	838	842	843	79
15°	797	802	814	826	832	225
25°	728	736	759	782	791	335
35°	631	642	672	696	706	395
45°	513	523	550	573	582	396
55°	383	389	408	426	434	341
65°	239	242	254	264	269	238
75°	111	108	113	117	118	118
85°	22	22	20	20	20	27
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	842.1	842.1	842.1	842.1	842.1
2.5°	838.4	838.4	840.9	843.3	844.5
5°	834.8	836.0	838.4	842.1	843.3
7.5°	828.7	829.9	834.8	840.9	843.3
10°	820.1	822.6	829.9	837.2	840.9
12.5°	809.2	814.0	822.6	832.3	837.2
15°	797.0	801.9	814.0	826.2	832.3
17.5°	783.6	788.5	803.1	818.9	825.0
20°	766.5	773.8	790.9	809.2	816.5
22.5°	747.0	756.8	776.3	795.8	804.3
25°	727.5	736.1	759.2	782.4	790.9
27.5°	705.6	715.3	740.9	764.1	772.6
30°	682.4	692.2	719.0	744.6	753.1
32.5°	656.8	669.0	694.6	721.4	731.2
35°	631.3	642.2	671.5	695.8	705.6
37.5°	604.4	614.2	643.4	669.0	678.8
40°	574.0	584.9	614.2	639.8	649.5
42.5°	544.7	555.7	582.5	606.9	615.4
45°	513.0	522.8	549.6	572.8	582.5
47.5°	481.4	492.3	515.5	538.6	548.4
50°	449.7	458.2	481.4	503.3	509.4
52.5°	416.8	424.1	444.8	464.3	472.8
55°	382.7	388.7	408.2	426.5	433.8
57.5°	346.1	353.4	371.7	385.1	393.6
60°	312.0	315.6	331.5	344.9	353.4
62.5°	277.8	279.1	291.3	304.7	309.5
65°	238.9	242.5	253.5	264.4	269.3
67.5°	203.5	207.2	215.7	224.2	227.9
70°	170.6	170.6	179.1	185.2	188.9
72.5°	137.7	138.9	145.0	148.7	152.3
75°	110.9	108.5	113.3	117.0	118.2
77.5°	82.9	81.6	85.3	86.5	89.0
80°	59.7	59.7	60.9	62.2	62.2
82.5°	39.0	39.0	40.2	37.8	36.6
85°	21.9	21.9	19.5	19.5	19.5
87.5°	7.3	7.3	7.3	8.5	7.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)