

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: P297419

Luminaire Tested: **D3X-WO-42L93050-LD5-UNV-24-T1-W2A-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297419
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-7)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WO-42L93050-LD5-UNV-24-T1-W2A-3000K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH OPAL LENS
Light Source: (504) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3278.0 lumens
Efficiency: N/A
Efficacy: 110.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

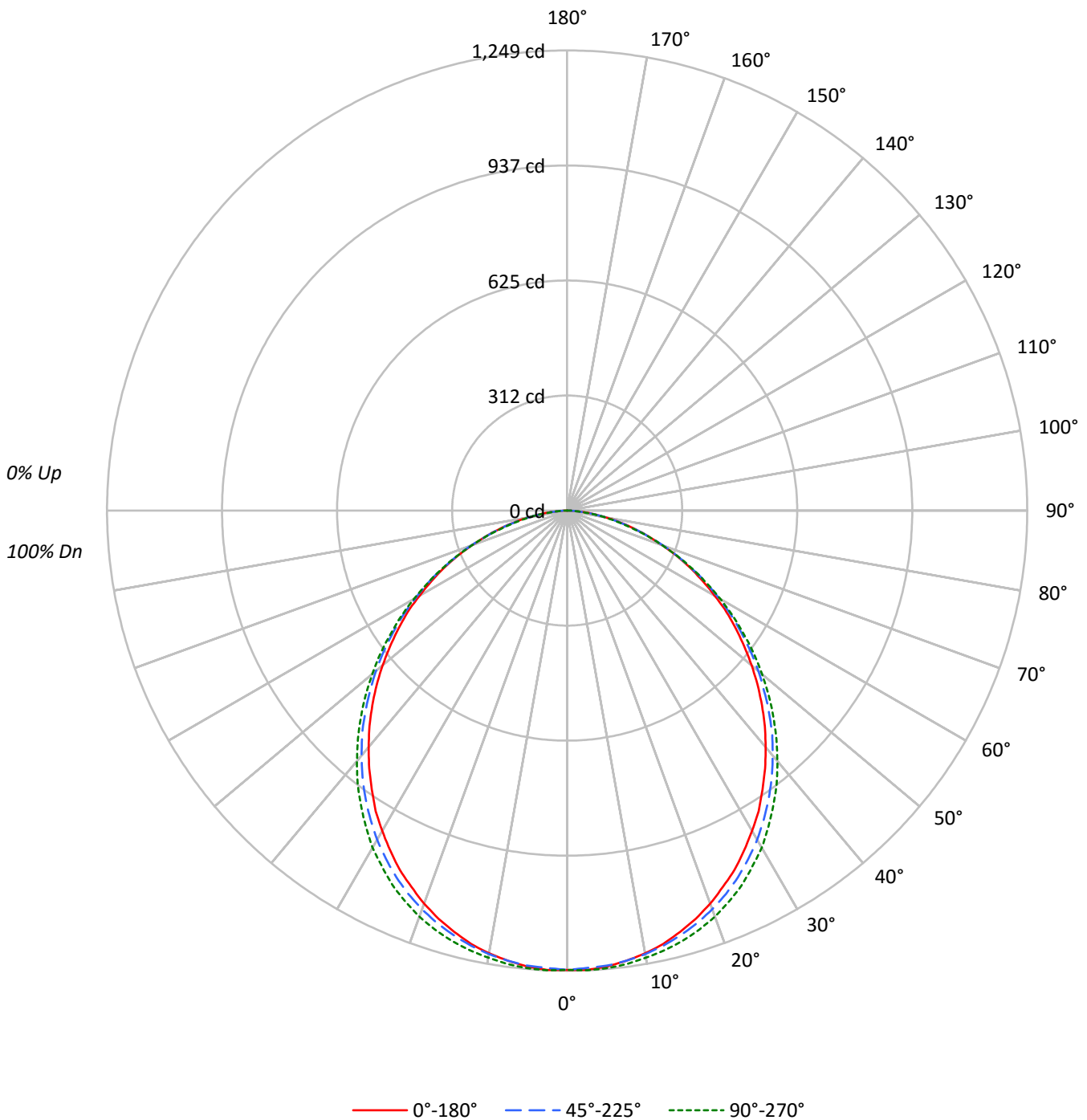
Input Watts (W): 29.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85					85			
2	100	92	85	79	97	90	84	78	86	81	77	83	79	75	80	76	73	71					71			
3	91	81	73	66	89	79	72	66	76	70	65	73	68	64	71	66	62	60					60			
4	83	72	63	57	81	70	62	56	68	61	55	66	60	55	63	58	54	52					52			
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45					45			
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	41	39					39			
7	66	53	44	38	64	52	44	38	50	43	37	49	42	37	47	41	37	35					35			
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31					31			
9	57	44	36	31	56	44	36	30	42	35	30	41	35	30	40	34	30	28					28			
10	54	41	33	28	53	40	33	28	39	32	28	38	32	27	37	32	27	26					26			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1677	1677	1677
5°	1678	1675	1684
10°	1667	1670	1684
15°	1649	1661	1684
20°	1625	1649	1679
25°	1597	1629	1666
30°	1560	1602	1642
35°	1518	1567	1603
40°	1472	1524	1559
45°	1423	1475	1506
50°	1368	1419	1445
55°	1311	1352	1373
60°	1245	1278	1292
65°	1174	1192	1199
70°	1078	1090	1078
75°	970	964	936
80°	821	813	787
85°	614	596	528



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.0	3.6
10°-20°	337.2	10.3
20°-30°	505.6	15.4
30°-40°	595.4	18.2
40°-50°	595.5	18.2
50°-60°	513.8	15.7
60°-70°	369.7	11.3
70°-80°	196.1	6.0
80°-90°	46.8	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°	960.8	29.3
0°-40°	1556.2	47.5
0°-60°	2665.4	81.3
0°-90°	3278.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3278.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1247	1247	1247	1247	1247	
5°	1242	1241	1240	1244	1247	118
15°	1184	1187	1193	1205	1209	334
25°	1076	1082	1098	1116	1122	495
35°	924	935	954	971	976	578
45°	748	758	775	788	792	577
55°	559	564	576	586	585	500
65°	369	370	374	376	376	365
75°	187	184	186	181	180	199
85°	40	40	39	35	34	48
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1246.7	1246.7	1246.7	1246.7	1246.7
2.5°	1247.8	1245.6	1242.3	1246.7	1248.9
5°	1242.3	1241.2	1240.1	1244.5	1246.7
7.5°	1232.3	1233.4	1232.3	1239.0	1241.2
10°	1220.2	1221.3	1222.4	1230.1	1232.3
12.5°	1204.7	1205.8	1209.1	1219.1	1222.4
15°	1183.7	1187.1	1192.6	1204.7	1209.1
17.5°	1161.7	1166.1	1173.8	1188.2	1192.6
20°	1135.2	1140.7	1151.7	1167.2	1172.7
22.5°	1105.3	1110.9	1126.3	1142.9	1148.4
25°	1075.5	1082.2	1097.6	1116.4	1121.9
27.5°	1040.2	1049.0	1065.6	1084.4	1088.8
30°	1003.8	1011.5	1031.4	1049.0	1056.8
32.5°	967.3	975.0	993.8	1011.5	1017.0
35°	924.2	935.3	954.1	970.6	976.1
37.5°	882.3	892.2	912.1	928.7	934.2
40°	838.1	847.0	867.9	883.4	887.8
42.5°	793.9	802.8	823.8	835.9	840.3
45°	747.6	757.5	775.2	788.4	791.7
47.5°	701.2	708.9	725.5	737.6	742.0
50°	653.7	661.4	678.0	687.9	690.1
52.5°	606.2	611.7	627.2	636.0	639.4
55°	558.7	564.3	576.4	586.4	585.2
57.5°	513.5	515.7	527.8	534.5	534.5
60°	462.7	464.9	474.8	479.2	480.3
62.5°	415.2	418.5	426.2	427.3	427.3
65°	368.8	369.9	374.3	376.5	376.5
67.5°	322.4	321.3	325.8	325.8	324.6
70°	273.9	276.1	277.2	275.0	273.9
72.5°	229.7	228.6	228.6	227.5	227.5
75°	186.6	184.4	185.5	181.1	180.0
77.5°	146.9	143.6	142.4	140.2	138.0
80°	106.0	106.0	104.9	102.7	101.6
82.5°	70.7	70.7	69.6	67.4	65.2
85°	39.8	39.8	38.6	35.3	34.2
87.5°	13.3	13.3	13.3	13.3	13.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)