

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: P297198

Luminaire Tested: **D3X-WG-42L92765-LD5-UNV-24-T1-W2A-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297198
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-9)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WG-42L92765-LD5-UNV-24-T1-W2A-3000K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH RECTANGULAR PERF LENS
Light Source: (504) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3229.0 lumens
Efficiency: N/A
Efficacy: 112.1 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.3 / 1.37
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

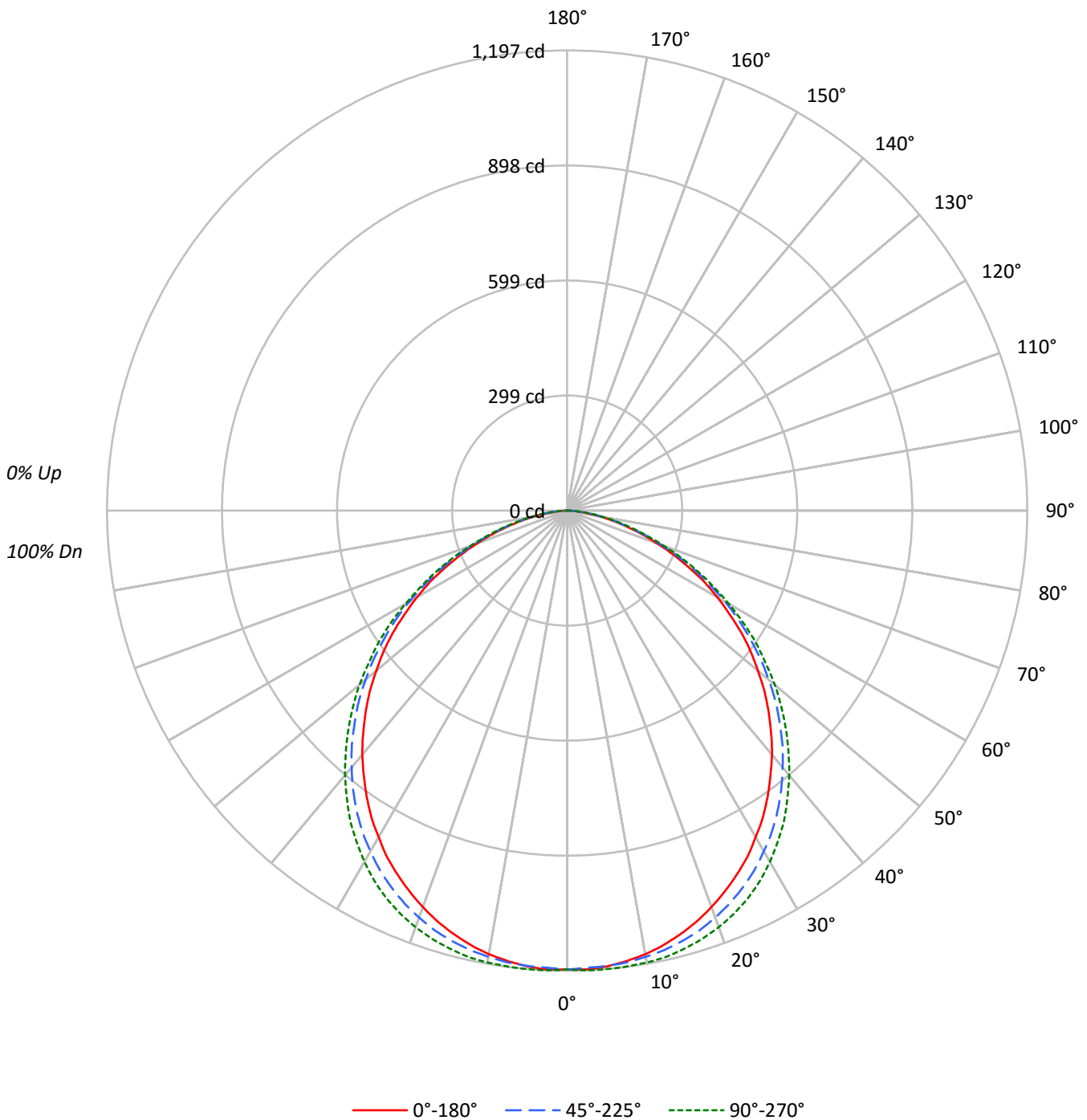
Input Watts (W): 28.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	95	98	95	92	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61
4	84	72	63	57	81	71	63	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	47	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	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	27	38	32	27	37	31	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1606	1606	1606
5°	1608	1606	1617
10°	1601	1610	1631
15°	1589	1614	1643
20°	1572	1613	1651
25°	1551	1606	1652
30°	1524	1590	1639
35°	1493	1567	1617
40°	1457	1532	1578
45°	1411	1488	1532
50°	1356	1433	1477
55°	1297	1362	1406
60°	1214	1276	1307
65°	1109	1167	1197
70°	974	1024	1051
75°	824	866	896
80°	654	717	735
85°	446	536	517



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.4	3.5
10°-20°	327.5	10.1
20°-30°	497.6	15.4
30°-40°	593.8	18.4
40°-50°	599.7	18.6
50°-60°	516.7	16.0
60°-70°	360.2	11.2
70°-80°	178.5	5.5
80°-90°	41.6	1.3
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°	938.5	29.1
0°-40°	1532.3	47.5
0°-60°	2648.7	82.0
0°-90°	3229.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3229.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1194	1194	1194	1194	1194	
5°	1190	1189	1189	1195	1197	113
15°	1140	1146	1159	1174	1180	322
25°	1044	1058	1082	1104	1113	481
35°	909	924	954	976	984	568
45°	741	758	782	800	805	571
55°	553	564	581	594	599	493
65°	348	355	367	370	376	346
75°	158	161	167	170	172	171
85°	29	35	35	32	34	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1193.7	1193.7	1193.7	1193.7	1193.7
2.5°	1194.8	1192.5	1190.2	1194.8	1197.2
5°	1190.2	1189.1	1189.1	1194.8	1197.2
7.5°	1182.1	1182.1	1185.6	1193.7	1196.0
10°	1171.7	1174.0	1178.7	1190.2	1193.7
12.5°	1157.8	1162.5	1170.6	1184.4	1189.1
15°	1140.5	1146.3	1159.0	1174.0	1179.8
17.5°	1120.8	1128.9	1145.1	1162.5	1168.2
20°	1097.7	1108.1	1126.6	1146.3	1153.2
22.5°	1072.2	1085.0	1105.8	1126.6	1134.7
25°	1044.5	1058.4	1081.5	1103.5	1112.7
27.5°	1015.6	1029.4	1054.9	1076.9	1086.1
30°	980.9	997.1	1023.7	1046.8	1054.9
32.5°	947.3	963.5	991.3	1012.1	1020.2
35°	909.1	924.2	954.3	976.2	984.3
37.5°	868.7	886.0	914.9	934.6	941.5
40°	829.3	844.4	872.1	891.8	898.7
42.5°	785.4	801.6	829.3	846.7	852.5
45°	741.4	757.6	781.9	800.4	805.0
47.5°	696.3	711.4	735.6	750.7	755.3
50°	647.7	661.6	684.8	699.8	705.6
52.5°	601.5	614.2	633.9	646.6	650.1
55°	552.9	564.5	580.7	594.5	599.2
57.5°	500.8	513.6	528.6	540.2	543.6
60°	451.1	461.5	474.2	484.6	485.8
62.5°	402.5	407.2	418.7	428.0	429.1
65°	348.2	355.1	366.7	370.1	375.9
67.5°	298.4	303.0	312.3	316.9	321.6
70°	247.5	251.0	260.3	266.0	267.2
72.5°	203.6	204.7	211.7	216.3	217.5
75°	158.5	160.8	166.6	170.0	172.3
77.5°	120.3	122.6	127.2	129.5	129.5
80°	84.4	87.9	92.5	93.7	94.8
82.5°	54.4	59.0	62.5	63.6	61.3
85°	28.9	34.7	34.7	32.4	33.5
87.5°	10.4	12.7	13.9	15.0	15.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)