

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: P297140

Luminaire Tested: **D3X-WG-42L93050-LD5-UNV-24-T1-W2A-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297140
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-42L93050-LD5-UNV-24-T1-W2A-3500K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH RECTANGULAR PERF LENS
Light Source: (504) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3368.0 lumens
Efficiency: N/A
Efficacy: 113.4 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

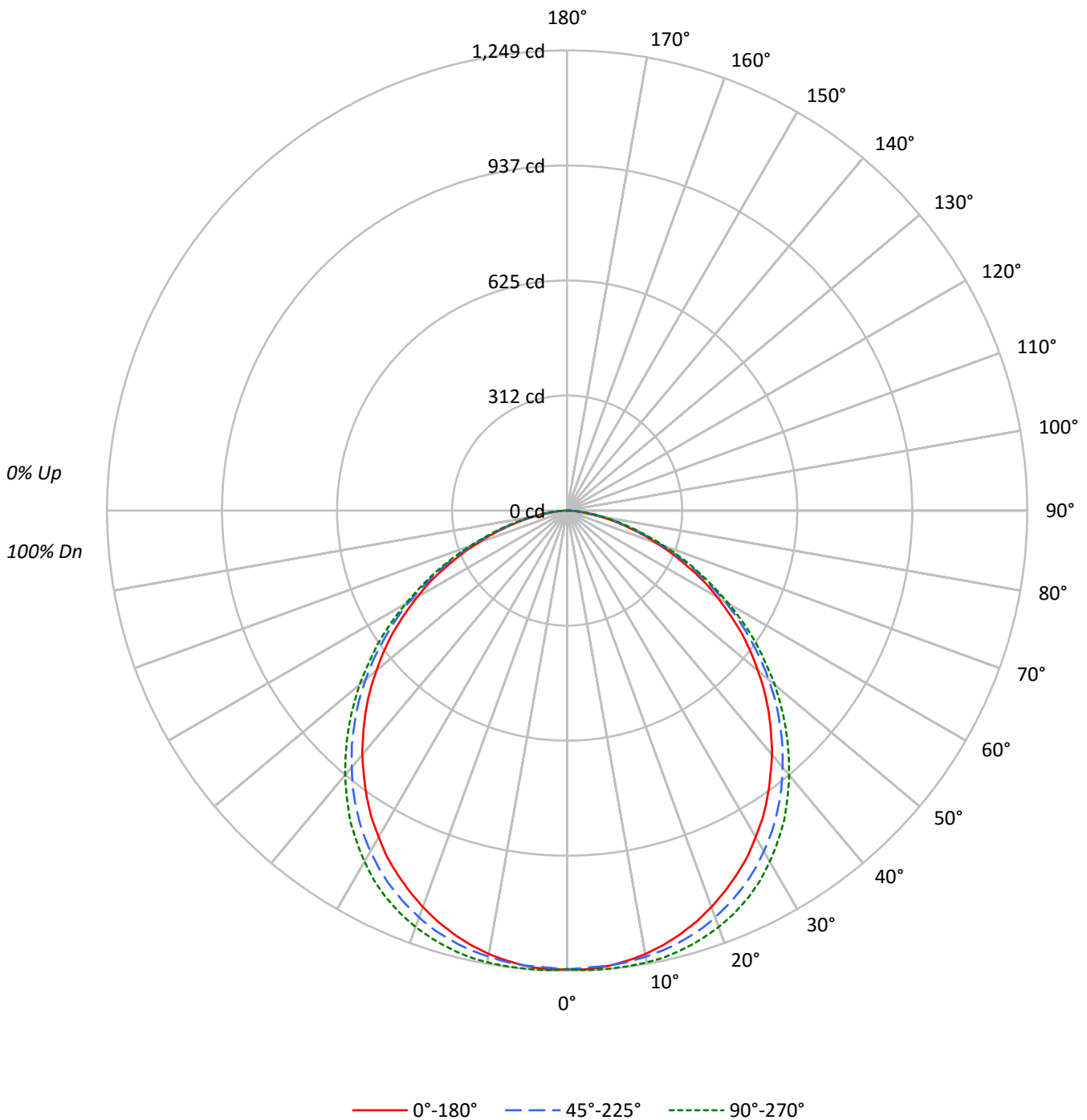
Input Watts (W): 29.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1675	1675	1675
5°	1677	1675	1687
10°	1670	1680	1701
15°	1657	1684	1714
20°	1639	1683	1722
25°	1617	1675	1723
30°	1590	1659	1709
35°	1558	1635	1686
40°	1519	1598	1646
45°	1471	1552	1598
50°	1414	1495	1540
55°	1353	1421	1466
60°	1266	1331	1364
65°	1156	1218	1248
70°	1016	1068	1096
75°	859	903	935
80°	683	748	766
85°	466	559	540



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.3	3.5
10°-20°	341.5	10.1
20°-30°	519.1	15.4
30°-40°	619.4	18.4
40°-50°	625.5	18.6
50°-60°	538.9	16.0
60°-70°	375.7	11.2
70°-80°	186.2	5.5
80°-90°	43.4	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°	978.9	29.1
0°-40°	1598.3	47.5
0°-60°	2762.7	82.0
0°-90°	3368.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3368.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1245	1245	1245	1245	1245	
5°	1242	1240	1240	1246	1249	118
15°	1190	1196	1209	1225	1231	335
25°	1089	1104	1128	1151	1161	502
35°	948	964	995	1018	1027	593
45°	773	790	816	835	840	596
55°	577	589	606	620	625	514
65°	363	370	382	386	392	361
75°	165	168	174	177	180	178
85°	30	36	36	34	35	39
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1245.1	1245.1	1245.1	1245.1	1245.1
2.5°	1246.3	1243.9	1241.5	1246.3	1248.7
5°	1241.5	1240.3	1240.3	1246.3	1248.7
7.5°	1233.0	1233.0	1236.6	1245.1	1247.5
10°	1222.2	1224.6	1229.4	1241.5	1245.1
12.5°	1207.7	1212.5	1220.9	1235.4	1240.3
15°	1189.6	1195.6	1208.9	1224.6	1230.6
17.5°	1169.1	1177.5	1194.4	1212.5	1218.5
20°	1144.9	1155.8	1175.1	1195.6	1202.9
22.5°	1118.4	1131.7	1153.4	1175.1	1183.5
25°	1089.4	1103.9	1128.1	1151.0	1160.6
27.5°	1059.3	1073.8	1100.3	1123.2	1132.9
30°	1023.1	1040.0	1067.7	1091.9	1100.3
32.5°	988.1	1005.0	1033.9	1055.7	1064.1
35°	948.3	964.0	995.3	1018.3	1026.7
37.5°	906.1	924.2	954.3	974.8	982.1
40°	865.0	880.7	909.7	930.2	937.4
42.5°	819.2	836.1	865.0	883.1	889.2
45°	773.3	790.2	815.6	834.9	839.7
47.5°	726.3	742.0	767.3	783.0	787.8
50°	675.6	690.1	714.2	729.9	735.9
52.5°	627.4	640.6	661.1	674.4	678.0
55°	576.7	588.8	605.6	620.1	625.0
57.5°	522.4	535.7	551.4	563.4	567.0
60°	470.5	481.4	494.7	505.5	506.7
62.5°	419.9	424.7	436.7	446.4	447.6
65°	363.1	370.4	382.5	386.1	392.1
67.5°	311.3	316.1	325.7	330.6	335.4
70°	258.2	261.8	271.5	277.5	278.7
72.5°	212.3	213.5	220.8	225.6	226.8
75°	165.3	167.7	173.7	177.4	179.8
77.5°	125.5	127.9	132.7	135.1	135.1
80°	88.1	91.7	96.5	97.7	98.9
82.5°	56.7	61.5	65.1	66.4	63.9
85°	30.2	36.2	36.2	33.8	35.0
87.5°	10.9	13.3	14.5	15.7	15.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)