

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: P298296

Luminaire Tested: **D3X-WG-44L92765-LD5-UNV-22-T1-W2A-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P298296
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-6)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WG-44L92765-LD5-UNV-22-T1-W2A-2700K
Description: D3X LED 2x2 TUNABLE WHITE TROFFER
WITH RECTANGULAR PERF LENS
Light Source: (252) 90 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3224.0 lumens
Efficiency: N/A
Efficacy: 90.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.3 / 1.35
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

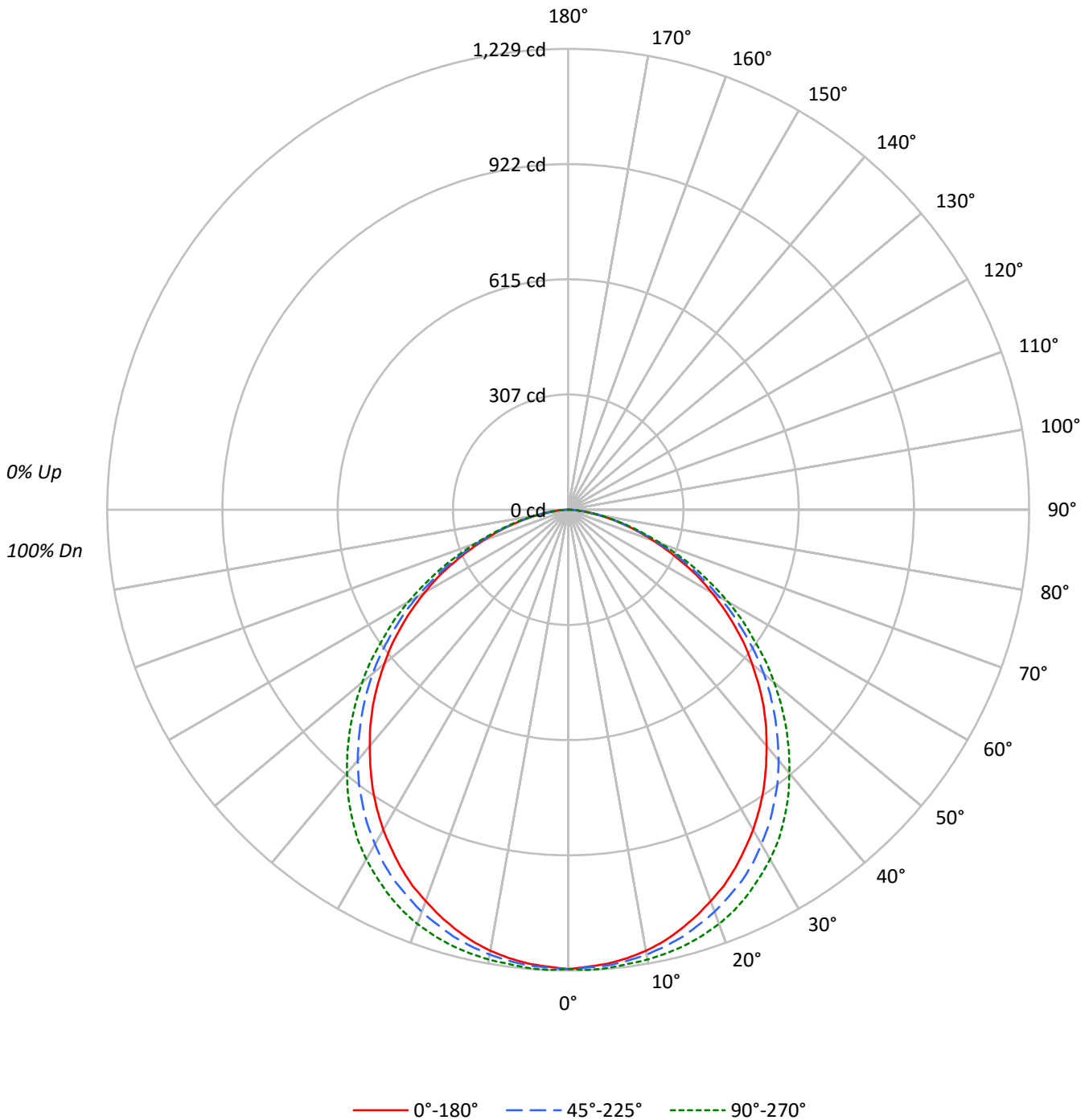
Input Watts (W): 35.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	86	80	97	90	84	79	87	82	77		83	79	76		80	77	74	72
3	91	81	73	67	89	80	72	66	77	70	65		74	69	64		71	67	63	61
4	84	72	64	57	82	71	63	57	68	61	56		66	60	55		64	59	54	52
5	77	65	56	49	75	64	55	49	61	54	49		59	53	48		58	52	48	45
6	71	58	50	43	69	57	49	43	56	48	43		54	47	42		52	47	42	40
7	66	53	44	38	64	52	44	38	51	43	38		49	43	38		48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34		45	39	34		44	38	34	32
9	58	44	36	31	56	44	36	31	43	36	31		42	35	30		41	35	30	28
10	54	41	33	28	53	40	33	28	40	33	28		39	32	28		38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3297	3297	3297
5°	3282	3296	3314
10°	3264	3292	3329
15°	3227	3285	3351
20°	3180	3268	3367
25°	3130	3246	3363
30°	3063	3201	3344
35°	2985	3142	3300
40°	2891	3066	3222
45°	2800	2963	3126
50°	2679	2851	3002
55°	2545	2689	2834
60°	2376	2505	2652
65°	2168	2266	2397
70°	1899	1979	2060
75°	1619	1654	1726
80°	1299	1327	1353
85°	951	898	846



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.0	3.6
10°-20°	332.8	10.3
20°-30°	503.2	15.6
30°-40°	597.7	18.5
40°-50°	600.0	18.6
50°-60°	512.5	15.9
60°-70°	353.1	11.0
70°-80°	171.2	5.3
80°-90°	37.5	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°	952.0	29.5
0°-40°	1549.7	48.1
0°-60°	2662.2	82.6
0°-90°	3224.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3224.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1225	1225	1225	1225	1225	
5°	1215	1215	1220	1224	1227	115
15°	1158	1164	1179	1194	1203	327
25°	1054	1063	1093	1122	1133	485
35°	909	922	956	992	1004	568
45°	736	746	779	811	821	566
55°	542	551	573	597	604	485
65°	340	340	356	371	376	337
75°	156	152	159	163	166	167
85°	31	31	29	27	27	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1225.2	1225.2	1225.2	1225.2	1225.2
2.5°	1220.1	1220.1	1221.8	1226.9	1228.6
5°	1214.9	1214.9	1220.1	1223.5	1226.9
7.5°	1206.4	1208.1	1213.2	1220.1	1221.8
10°	1194.4	1196.1	1204.7	1213.2	1218.3
12.5°	1179.0	1182.4	1192.7	1206.4	1211.5
15°	1158.5	1163.6	1179.0	1194.4	1202.9
17.5°	1136.2	1143.1	1160.2	1182.4	1191.0
20°	1110.5	1119.1	1141.3	1165.3	1175.6
22.5°	1084.9	1091.7	1117.4	1144.8	1156.7
25°	1054.1	1062.6	1093.4	1122.5	1132.8
27.5°	1019.9	1031.8	1064.3	1095.1	1105.4
30°	985.6	995.9	1030.1	1064.3	1076.3
32.5°	948.0	958.3	995.9	1030.1	1043.8
35°	908.6	922.3	956.5	992.5	1004.5
37.5°	865.8	881.2	917.2	948.0	963.4
40°	823.1	836.8	872.7	905.2	917.2
42.5°	780.3	792.3	826.5	860.7	871.0
45°	735.8	746.1	778.6	811.1	821.4
47.5°	687.9	699.9	730.7	758.0	770.0
50°	640.0	652.0	681.0	706.7	717.0
52.5°	593.8	600.6	628.0	652.0	663.9
55°	542.4	551.0	573.2	597.2	604.0
57.5°	492.8	497.9	520.2	540.7	551.0
60°	441.5	444.9	465.4	480.8	492.8
62.5°	393.6	393.6	409.0	426.1	432.9
65°	340.5	340.5	355.9	371.3	376.5
67.5°	289.2	292.6	302.9	314.9	318.3
70°	241.3	241.3	251.5	260.1	261.8
72.5°	198.5	196.8	201.9	208.8	212.2
75°	155.7	152.3	159.1	162.6	166.0
77.5°	118.1	116.4	119.8	123.2	123.2
80°	83.8	82.1	85.6	85.6	87.3
82.5°	54.8	56.5	56.5	54.8	53.0
85°	30.8	30.8	29.1	27.4	27.4
87.5°	10.3	10.3	10.3	12.0	12.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)