

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: P298206

Luminaire Tested: **D3X-WG-40L82765-LD5-UNV-22-T1-W2A-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P298206
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-40L82765-LD5-UNV-22-T1-W2A-4000K
Description: D3X LED 2x2 TUNABLE WHITE TROFFER
WITH RECTANGULAR PERF LENS
Light Source: (252) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3750.0 lumens
Efficiency: N/A
Efficacy: 115.4 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

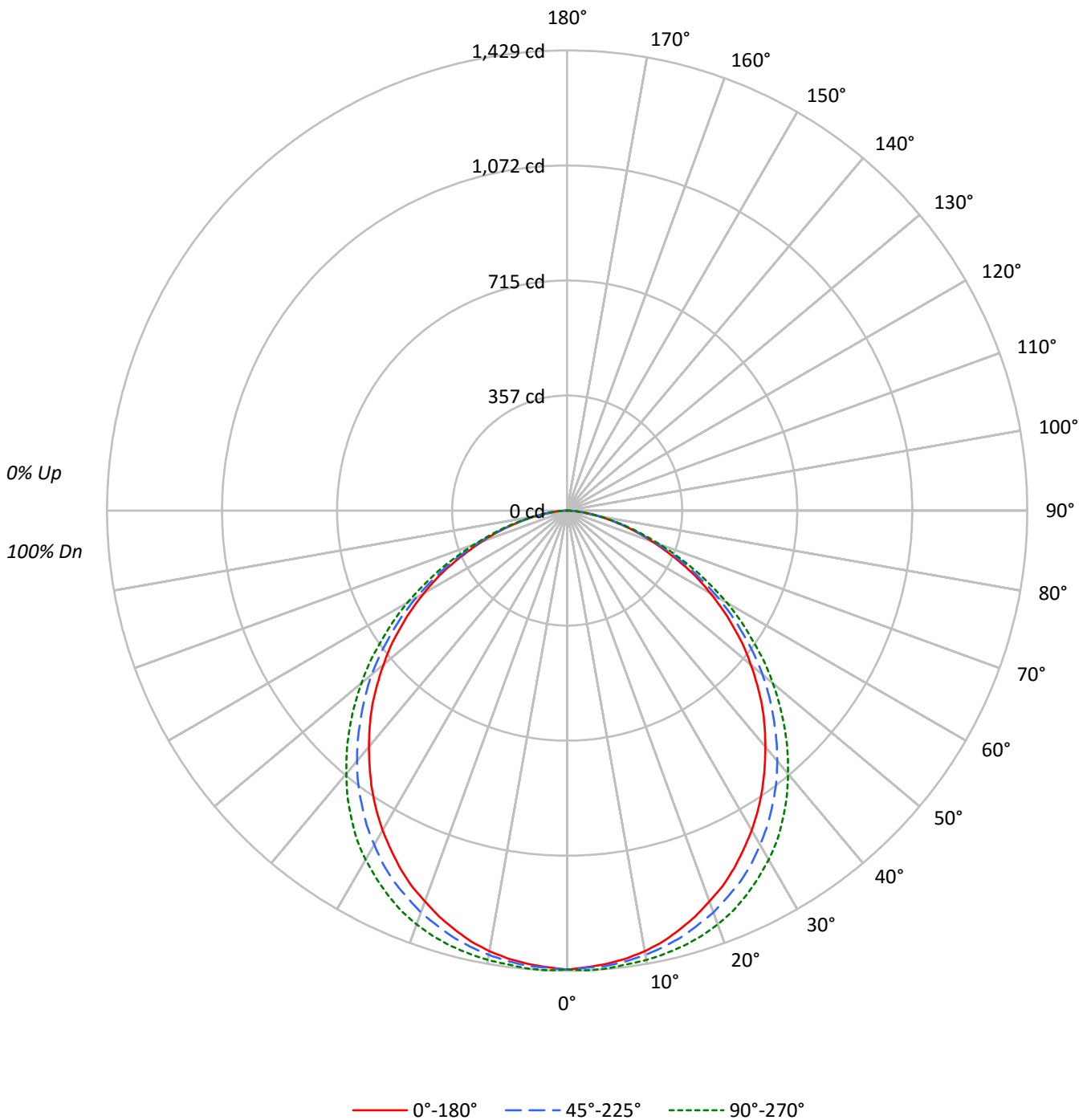
Input Watts (W): 32.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3835	3835	3835
5°	3817	3833	3855
10°	3796	3829	3872
15°	3754	3820	3898
20°	3699	3802	3916
25°	3640	3776	3912
30°	3562	3723	3890
35°	3472	3655	3838
40°	3363	3566	3747
45°	3257	3446	3636
50°	3116	3316	3491
55°	2960	3128	3296
60°	2764	2914	3085
65°	2522	2636	2788
70°	2208	2302	2396
75°	1883	1925	2008
80°	1511	1542	1573
85°	1105	1044	982



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.9	3.6
10°-20°	387.1	10.3
20°-30°	585.3	15.6
30°-40°	695.2	18.5
40°-50°	697.9	18.6
50°-60°	596.1	15.9
60°-70°	410.7	11.0
70°-80°	199.1	5.3
80°-90°	43.5	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°	1107.3	29.5
0°-40°	1802.5	48.1
0°-60°	3096.6	82.6
0°-90°	3750.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3750.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1425	1425	1425	1425	1425	
5°	1413	1413	1419	1423	1427	134
15°	1348	1353	1371	1389	1399	380
25°	1226	1236	1272	1306	1318	564
35°	1057	1073	1113	1154	1168	660
45°	856	868	906	943	955	659
55°	631	641	667	695	703	564
65°	396	396	414	432	438	392
75°	181	177	185	189	193	195
85°	36	36	34	32	32	44
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1425.1	1425.1	1425.1	1425.1	1425.1
2.5°	1419.1	1419.1	1421.1	1427.1	1429.1
5°	1413.1	1413.1	1419.1	1423.1	1427.1
7.5°	1403.2	1405.2	1411.2	1419.1	1421.1
10°	1389.3	1391.3	1401.2	1411.2	1417.1
12.5°	1371.3	1375.3	1387.3	1403.2	1409.2
15°	1347.5	1353.4	1371.3	1389.3	1399.2
17.5°	1321.6	1329.5	1349.5	1375.3	1385.3
20°	1291.7	1301.7	1327.6	1355.4	1367.4
22.5°	1261.9	1269.8	1299.7	1331.5	1345.5
25°	1226.1	1236.0	1271.8	1305.7	1317.6
27.5°	1186.2	1200.2	1238.0	1273.8	1285.8
30°	1146.4	1158.4	1198.2	1238.0	1251.9
32.5°	1102.7	1114.6	1158.4	1198.2	1214.1
35°	1056.9	1072.8	1112.6	1154.4	1168.3
37.5°	1007.1	1025.0	1066.8	1102.7	1120.6
40°	957.4	973.3	1015.1	1052.9	1066.8
42.5°	907.6	921.5	961.3	1001.1	1013.1
45°	855.8	867.8	905.6	943.4	955.4
47.5°	800.1	814.1	849.9	881.7	895.7
50°	744.4	758.3	792.2	822.0	834.0
52.5°	690.6	698.6	730.5	758.3	772.3
55°	630.9	640.9	666.8	694.6	702.6
57.5°	573.2	579.2	605.1	628.9	640.9
60°	513.5	517.5	541.4	559.3	573.2
62.5°	457.8	457.8	475.7	495.6	503.6
65°	396.1	396.1	414.0	431.9	437.9
67.5°	336.4	340.3	352.3	366.2	370.2
70°	280.6	280.6	292.6	302.5	304.5
72.5°	230.9	228.9	234.9	242.8	246.8
75°	181.1	177.1	185.1	189.1	193.1
77.5°	137.3	135.3	139.3	143.3	143.3
80°	97.5	95.5	99.5	99.5	101.5
82.5°	63.7	65.7	65.7	63.7	61.7
85°	35.8	35.8	33.8	31.8	31.8
87.5°	11.9	11.9	11.9	13.9	13.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)