

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: P298035

Luminaire Tested: **D3X-WD-40L82765-LD5-UNV-22-T1-W2A-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P298035
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-5)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WD-40L82765-LD5-UNV-22-T1-W2A-2700K
Description: D3X LED 2x2 TUNABLE WHITE TROFFER
WITH ROUND PERF LENS
Light Source: (252) 80 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3400.0 lumens
Efficiency: N/A
Efficacy: 105.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.32 / 1.37
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

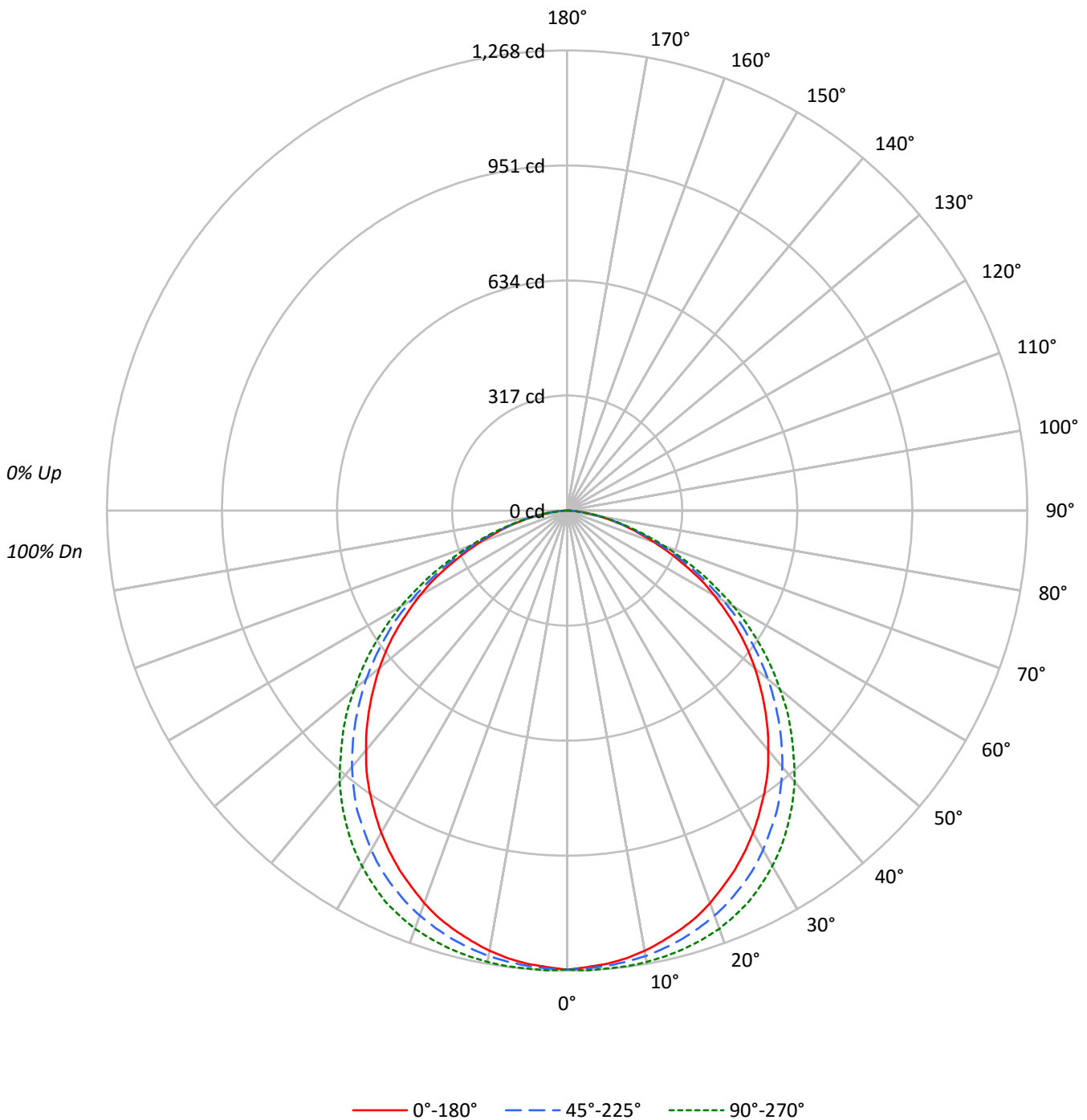
Input Watts (W): 32.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	85	80	97	90	84	79	87	81	77		83	79	75		80	77	74	72
3	91	81	73	67	89	79	72	66	77	70	65		74	68	64		71	67	63	61
4	84	72	63	57	81	71	63	57	68	61	56		66	60	55		64	59	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		48	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	31	42	35	30		41	35	30		40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	28		38	32	27		37	32	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3403	3403	3403
5°	3386	3401	3421
10°	3366	3406	3451
15°	3334	3406	3482
20°	3296	3401	3511
25°	3244	3385	3526
30°	3185	3355	3514
35°	3114	3313	3481
40°	3028	3240	3426
45°	2932	3141	3329
50°	2827	3026	3203
55°	2696	2876	3057
60°	2521	2679	2856
65°	2284	2424	2576
70°	2016	2116	2232
75°	1731	1770	1845
80°	1390	1418	1446
85°	1016	905	905



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.8	3.5
10°-20°	345.2	10.2
20°-30°	525.1	15.4
30°-40°	628.2	18.5
40°-50°	635.1	18.7
50°-60°	546.5	16.1
60°-70°	377.3	11.1
70°-80°	183.0	5.4
80°-90°	39.7	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°	990.1	29.1
0°-40°	1618.4	47.6
0°-60°	2800.0	82.4
0°-90°	3400.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3400.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1265	1265	1265	1265	1265	
5°	1254	1255	1259	1265	1266	119
15°	1197	1204	1222	1241	1250	338
25°	1093	1105	1140	1175	1188	503
35°	948	964	1008	1045	1060	593
45°	770	785	825	860	875	594
55°	575	584	613	640	652	512
65°	359	364	381	397	404	357
75°	166	163	170	176	178	177
85°	33	33	29	29	29	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1264.6	1264.6	1264.6	1264.6	1264.6
2.5°	1259.1	1259.1	1262.8	1266.4	1268.3
5°	1253.6	1255.4	1259.1	1264.6	1266.4
7.5°	1244.5	1246.3	1253.6	1262.8	1266.4
10°	1231.7	1235.3	1246.3	1257.3	1262.8
12.5°	1215.2	1222.5	1235.3	1250.0	1257.3
15°	1196.9	1204.2	1222.5	1240.8	1250.0
17.5°	1176.8	1184.1	1206.0	1229.8	1239.0
20°	1151.1	1162.1	1187.7	1215.2	1226.2
22.5°	1121.9	1136.5	1165.8	1195.1	1207.9
25°	1092.6	1105.4	1140.2	1174.9	1187.7
27.5°	1059.6	1074.3	1112.7	1147.5	1160.3
30°	1024.9	1039.5	1079.8	1118.2	1131.0
32.5°	986.4	1004.7	1043.2	1083.4	1098.1
35°	948.0	964.5	1008.4	1045.0	1059.6
37.5°	907.7	922.4	966.3	1004.7	1019.4
40°	862.0	878.4	922.4	960.8	975.4
42.5°	818.1	834.5	874.8	911.4	924.2
45°	770.5	785.1	825.4	860.1	874.8
47.5°	722.9	739.4	774.1	808.9	823.5
50°	675.3	688.1	722.9	755.8	765.0
52.5°	625.9	636.9	668.0	697.3	710.1
55°	574.7	583.8	613.1	640.5	651.5
57.5°	519.7	530.7	558.2	578.3	591.1
60°	468.5	474.0	497.8	517.9	530.7
62.5°	417.3	419.1	437.4	457.5	464.8
65°	358.7	364.2	380.7	397.1	404.5
67.5°	305.6	311.1	323.9	336.7	342.2
70°	256.2	256.2	269.0	278.2	283.7
72.5°	206.8	208.6	217.8	223.3	228.8
75°	166.5	162.9	170.2	175.7	177.5
77.5°	124.4	122.6	128.1	129.9	133.6
80°	89.7	89.7	91.5	93.3	93.3
82.5°	58.6	58.6	60.4	56.7	54.9
85°	32.9	32.9	29.3	29.3	29.3
87.5°	11.0	11.0	11.0	12.8	11.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)