

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: P298202

Luminaire Tested: **D3X-WG-35L82765-LD5-UNV-22-T1-W2A-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P298202
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-35L82765-LD5-UNV-22-T1-W2A-6500K
Description: D3X LED 2x2 TUNABLE WHITE TROFFER
WITH RECTANGULAR PERF LENS
Light Source: (252) 80 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3472.0 lumens
Efficiency: N/A
Efficacy: 119.3 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

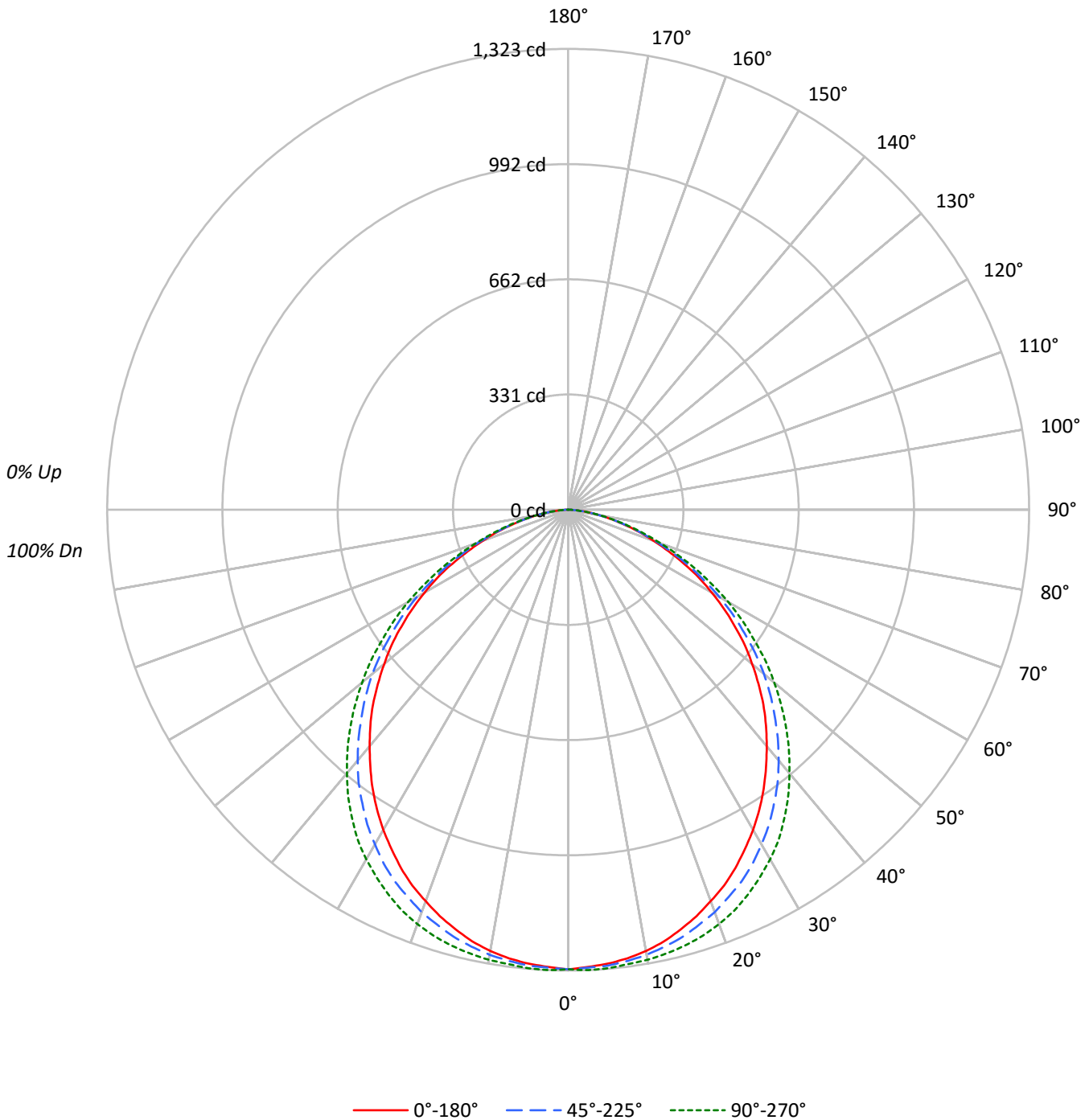
Input Watts (W): 29.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	3550	3550	3550
5°	3534	3549	3569
10°	3515	3545	3585
15°	3476	3537	3609
20°	3425	3520	3625
25°	3371	3496	3622
30°	3298	3447	3602
35°	3214	3384	3553
40°	3114	3301	3470
45°	3016	3191	3366
50°	2885	3070	3232
55°	2741	2896	3052
60°	2559	2697	2856
65°	2335	2441	2581
70°	2044	2131	2218
75°	1744	1782	1859
80°	1399	1427	1457
85°	1025	966	911



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.9	3.6
10°-20°	358.4	10.3
20°-30°	541.9	15.6
30°-40°	643.6	18.5
40°-50°	646.2	18.6
50°-60°	551.9	15.9
60°-70°	380.3	11.0
70°-80°	184.4	5.3
80°-90°	40.3	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°	1025.2	29.5
0°-40°	1668.9	48.1
0°-60°	2867.0	82.6
0°-90°	3472.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3472.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1319	1319	1319	1319	1319	
5°	1308	1308	1314	1318	1321	124
15°	1248	1253	1270	1286	1296	352
25°	1135	1144	1178	1209	1220	522
35°	978	993	1030	1069	1082	611
45°	792	804	838	874	884	610
55°	584	593	617	643	650	522
65°	367	367	383	400	405	363
75°	168	164	171	175	179	180
85°	33	33	31	30	30	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1319.4	1319.4	1319.4	1319.4	1319.4
2.5°	1313.9	1313.9	1315.8	1321.3	1323.1
5°	1308.4	1308.4	1313.9	1317.6	1321.3
7.5°	1299.2	1301.0	1306.5	1313.9	1315.8
10°	1286.3	1288.1	1297.3	1306.5	1312.1
12.5°	1269.7	1273.4	1284.4	1299.2	1304.7
15°	1247.6	1253.1	1269.7	1286.3	1295.5
17.5°	1223.6	1231.0	1249.4	1273.4	1282.6
20°	1196.0	1205.2	1229.1	1254.9	1266.0
22.5°	1168.3	1175.7	1203.3	1232.8	1245.7
25°	1135.2	1144.4	1177.5	1208.9	1219.9
27.5°	1098.3	1111.2	1146.2	1179.4	1190.4
30°	1061.4	1072.5	1109.4	1146.2	1159.1
32.5°	1020.9	1032.0	1072.5	1109.4	1124.1
35°	978.5	993.3	1030.1	1068.8	1081.7
37.5°	932.5	949.0	987.7	1020.9	1037.5
40°	886.4	901.1	939.8	974.8	987.7
42.5°	840.3	853.2	890.1	926.9	938.0
45°	792.4	803.5	838.5	873.5	884.5
47.5°	740.8	753.7	786.9	816.4	829.3
50°	689.2	702.1	733.4	761.1	772.1
52.5°	639.4	646.8	676.3	702.1	715.0
55°	584.2	593.4	617.3	643.1	650.5
57.5°	530.7	536.3	560.2	582.3	593.4
60°	475.4	479.1	501.2	517.8	530.7
62.5°	423.8	423.8	440.4	458.9	466.2
65°	366.7	366.7	383.3	399.9	405.4
67.5°	311.4	315.1	326.2	339.1	342.8
70°	259.8	259.8	270.9	280.1	281.9
72.5°	213.8	211.9	217.4	224.8	228.5
75°	167.7	164.0	171.4	175.1	178.8
77.5°	127.2	125.3	129.0	132.7	132.7
80°	90.3	88.5	92.1	92.1	94.0
82.5°	59.0	60.8	60.8	59.0	57.1
85°	33.2	33.2	31.3	29.5	29.5
87.5°	11.1	11.1	11.1	12.9	12.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)