

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: METALUX

Report Number: P260846

Luminaire Tested: **24CZ-LD5-35-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P260846  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25697)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24CZ-LD5-35-UNV-L92765-W2A1-U-2700K  
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS  
Light Source: (336) 90 CRI LEDS TUNED AT 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2758.0 lumens  
Efficiency: N/A  
Efficacy: 114.5 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.25 / 1.35  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

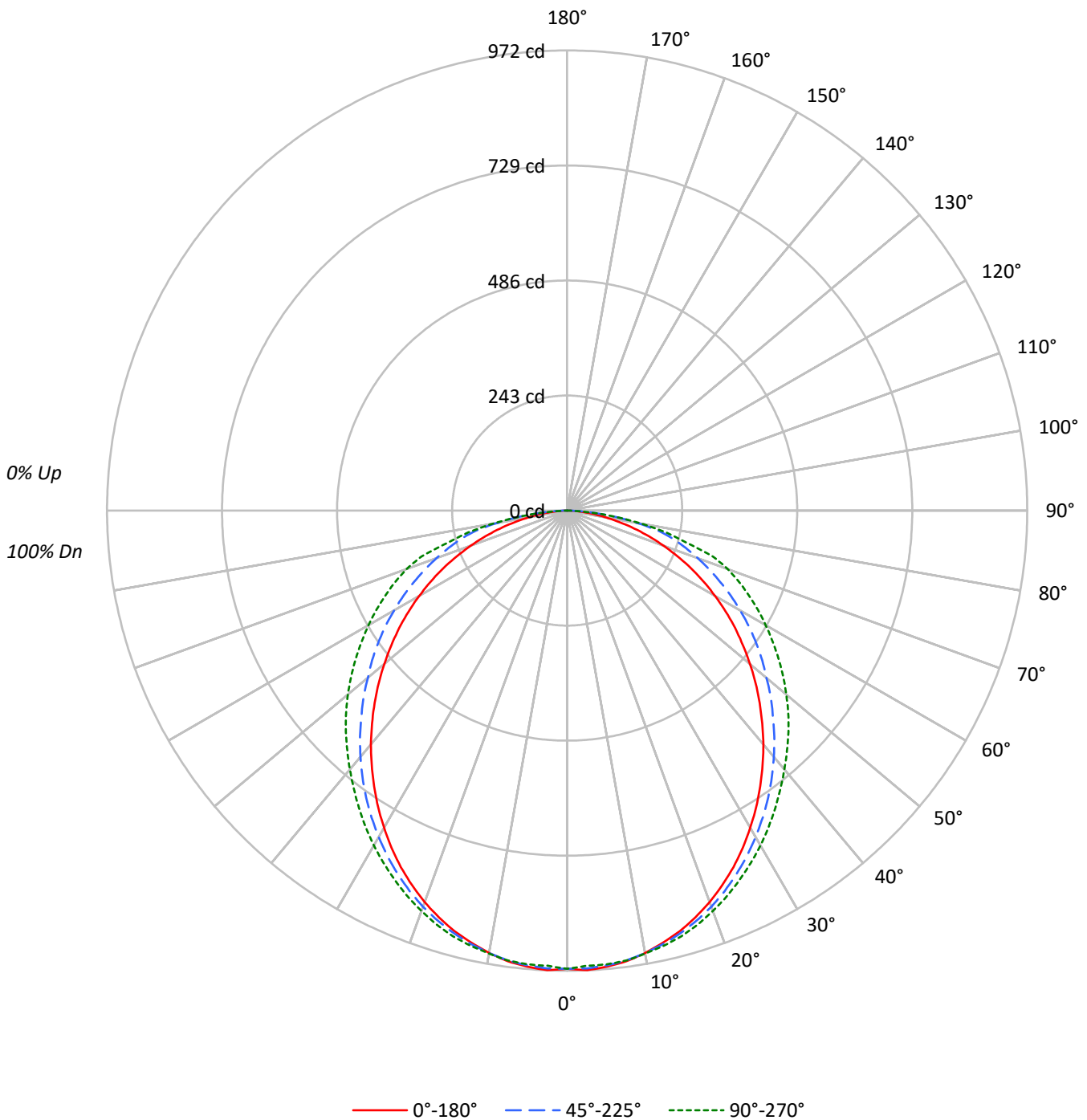
Input Watts (W): 24.087  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	108	103	99	95	106	101	97	93	97	93	90		93	90	88		89	87	85	83
2	98	90	83	77	95	88	81	76	84	79	74		81	76	72		78	74	71	68
3	89	78	70	63	87	77	69	63	74	67	62		71	65	61		68	64	60	57
4	82	69	60	54	79	68	60	53	66	58	52		63	57	52		61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45		57	50	45		55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40		51	44	39		50	44	39	37
7	64	51	42	35	63	50	41	35	48	41	35		47	40	35		45	39	35	32
8	60	46	38	32	58	45	37	32	44	37	31		43	36	31		42	36	31	29
9	56	42	34	28	54	42	34	28	41	33	28		40	33	28		38	32	28	26
10	52	39	31	26	51	39	31	26	38	31	26		37	30	25		36	30	25	24

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	1302	1302	1302
5°	1306	1302	1300
10°	1297	1297	1298
15°	1281	1288	1297
20°	1260	1275	1289
25°	1234	1257	1279
30°	1202	1237	1269
35°	1168	1216	1259
40°	1133	1193	1254
45°	1094	1170	1258
50°	1056	1150	1265
55°	1017	1143	1278
60°	971	1136	1304
65°	920	1136	1347
70°	851	1155	1419
75°	761	1208	1350
80°	637	1156	1237
85°	482	889	846



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	91.5	3.3
10°-20°	260.3	9.4
20°-30°	389.2	14.1
30°-40°	461.7	16.7
40°-50°	475.2	17.2
50°-60°	435.9	15.8
60°-70°	352.5	12.8
70°-80°	228.7	8.3
80°-90°	63.1	2.3
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°	740.9	26.9
0°-40°	1202.6	43.6
0°-60°	2113.7	76.6
0°-90°	2758.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2758.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	968	968	968	968	968	
5°	967	960	964	963	962	92
15°	920	916	924	928	931	259
25°	831	832	847	855	861	382
35°	711	717	740	756	767	445
45°	575	584	615	644	661	444
55°	433	447	487	527	545	387
65°	289	306	357	404	423	286
75°	146	174	232	260	260	156
85°	31	53	58	56	55	38
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	967.9	967.9	967.9	967.9	967.9
2.5°	971.7	964.1	967.9	967.0	962.2
5°	967.0	960.4	964.1	963.2	962.2
7.5°	960.4	953.7	958.5	957.5	958.5
10°	949.0	943.4	949.0	950.0	950.0
12.5°	934.9	930.1	937.7	939.6	941.5
15°	919.8	916.0	924.5	928.3	931.1
17.5°	900.9	898.0	908.4	913.1	916.9
20°	880.1	879.1	890.5	895.2	899.9
22.5°	856.5	856.5	869.7	875.4	882.0
25°	831.0	831.9	847.0	854.6	861.2
27.5°	803.6	804.5	822.5	831.9	839.5
30°	773.4	777.2	796.1	808.3	816.8
32.5°	743.2	747.9	768.7	782.8	792.3
35°	711.1	716.7	740.3	756.4	766.8
37.5°	678.0	684.6	710.1	728.1	740.3
40°	645.0	652.5	679.0	699.7	713.9
42.5°	610.0	618.5	647.8	672.3	687.5
45°	575.1	584.5	614.7	644.0	661.0
47.5°	540.1	551.5	583.6	615.7	633.6
50°	504.3	515.6	549.6	586.4	604.4
52.5°	468.4	481.6	519.4	557.1	575.1
55°	433.4	446.7	487.3	526.9	544.9
57.5°	397.6	410.8	455.2	496.7	514.6
60°	360.7	375.8	422.1	464.6	484.4
62.5°	324.8	340.9	390.0	435.3	454.2
65°	289.0	306.0	356.9	404.2	423.0
67.5°	252.1	272.0	324.8	373.0	392.8
70°	216.2	238.0	293.7	341.8	360.7
72.5°	181.3	204.9	262.5	311.6	323.0
75°	146.4	173.8	232.3	259.7	259.7
77.5°	113.3	143.5	198.3	208.7	214.4
80°	82.2	115.2	149.2	161.5	159.6
82.5°	54.8	87.8	106.7	106.7	103.9
85°	31.2	52.9	57.6	55.7	54.8
87.5°	13.2	19.8	17.9	14.2	12.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)