

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: P260842

Luminaire Tested: **24CZ-LD5-30-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P260842  
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-LD5-30-UNV-L92765-W2A1-U-5000K  
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER  
WITH RIBBED LENS  
Light Source: (336) 90 CRI LEDS TUNED AT 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2838.0 lumens  
Efficiency: N/A  
Efficacy: 141.3 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

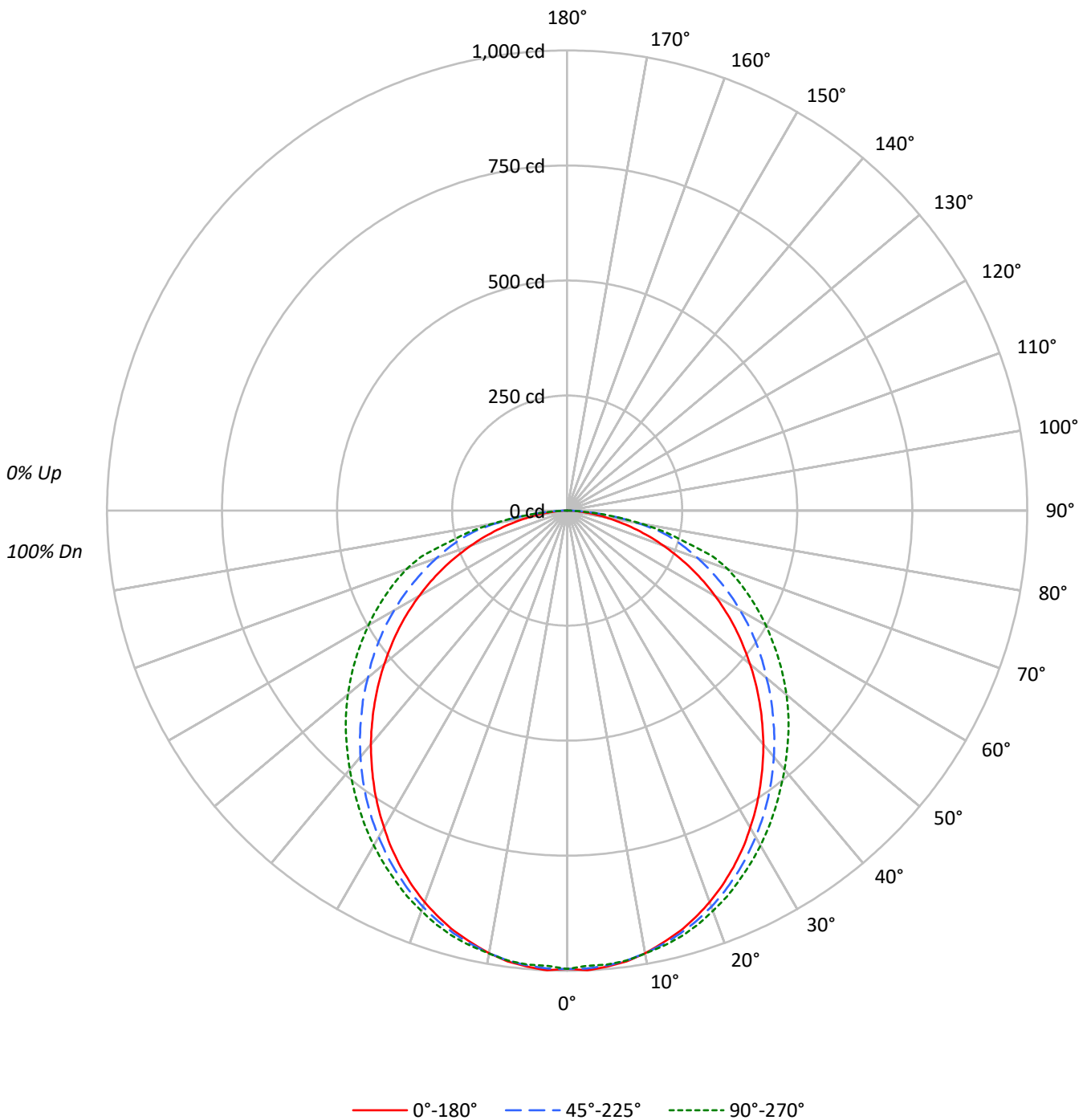
Input Watts (W): 20.088  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1340	1340	1340
5°	1344	1340	1337
10°	1334	1334	1336
15°	1318	1325	1335
20°	1297	1312	1326
25°	1269	1294	1316
30°	1236	1273	1306
35°	1202	1251	1296
40°	1166	1227	1290
45°	1126	1204	1294
50°	1086	1184	1302
55°	1046	1176	1315
60°	999	1169	1341
65°	947	1169	1386
70°	875	1189	1460
75°	783	1242	1389
80°	655	1189	1272
85°	496	915	871



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	94.1	3.3
10°-20°	267.9	9.4
20°-30°	400.5	14.1
30°-40°	475.1	16.7
40°-50°	489.0	17.2
50°-60°	448.6	15.8
60°-70°	362.7	12.8
70°-80°	235.4	8.3
80°-90°	64.9	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°	762.4	26.9
0°-40°	1237.5	43.6
0°-60°	2175.0	76.6
0°-90°	2838.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2838.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	996	996	996	996	996	
5°	995	988	992	991	990	94
15°	946	942	951	955	958	267
25°	855	856	872	879	886	394
35°	732	738	762	778	789	458
45°	592	602	633	663	680	457
55°	446	460	501	542	561	398
65°	297	315	367	416	435	294
75°	151	179	239	267	267	160
85°	32	54	59	57	56	39
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	996.0	996.0	996.0	996.0	996.0
2.5°	999.9	992.1	996.0	995.0	990.2
5°	995.0	988.2	992.1	991.1	990.2
7.5°	988.2	981.4	986.3	985.3	986.3
10°	976.6	970.7	976.6	977.5	977.5
12.5°	962.0	957.1	964.9	966.8	968.8
15°	946.4	942.5	951.3	955.2	958.1
17.5°	927.0	924.1	934.8	939.6	943.5
20°	905.6	904.7	916.3	921.2	926.0
22.5°	881.3	881.3	894.9	900.8	907.6
25°	855.1	856.1	871.6	879.4	886.2
27.5°	826.9	827.9	846.3	856.1	863.8
30°	795.8	799.7	819.1	831.8	840.5
32.5°	764.7	769.6	791.0	805.5	815.3
35°	731.7	737.5	761.8	778.3	789.0
37.5°	697.7	704.5	730.7	749.2	761.8
40°	663.7	671.4	698.7	720.0	734.6
42.5°	627.7	636.5	666.6	691.8	707.4
45°	591.8	601.5	632.6	662.7	680.2
47.5°	555.8	567.5	600.5	633.5	652.0
50°	518.9	530.5	565.5	603.4	621.9
52.5°	482.0	495.6	534.4	573.3	591.8
55°	446.0	459.6	501.4	542.2	560.7
57.5°	409.1	422.7	468.4	511.1	529.6
60°	371.2	386.7	434.3	478.1	498.5
62.5°	334.3	350.8	401.3	448.0	467.4
65°	297.3	314.8	367.3	415.9	435.3
67.5°	259.4	279.8	334.3	383.8	404.2
70°	222.5	244.9	302.2	351.8	371.2
72.5°	186.6	210.9	270.1	320.7	332.3
75°	150.6	178.8	239.0	267.2	267.2
77.5°	116.6	147.7	204.1	214.7	220.6
80°	84.5	118.5	153.5	166.2	164.2
82.5°	56.4	90.4	109.8	109.8	106.9
85°	32.1	54.4	59.3	57.3	56.4
87.5°	13.6	20.4	18.5	14.6	12.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)