

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: P260702

Luminaire Tested: **24CZ-LD5-30-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P260702  
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-L82765-W2A1-U-2700K  
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS  
Light Source: (336) 80 CRI LEDS TUNED AT 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2817.0 lumens  
Efficiency: N/A  
Efficacy: 143.6 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

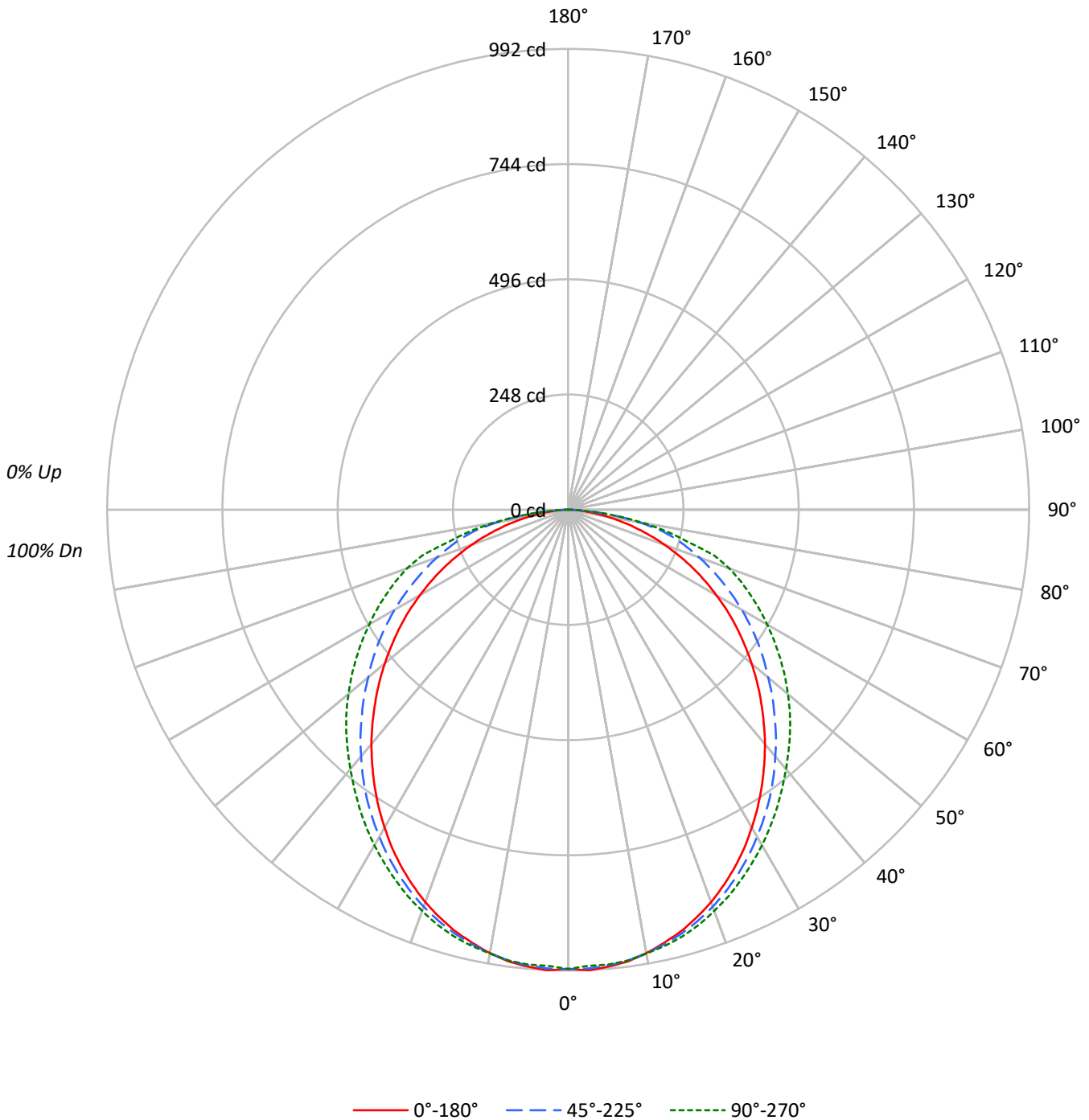
Input Watts (W): 19.623  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1330	1330	1330
5°	1334	1330	1327
10°	1324	1324	1326
15°	1309	1315	1325
20°	1287	1302	1316
25°	1260	1284	1306
30°	1227	1263	1296
35°	1193	1242	1286
40°	1157	1218	1281
45°	1118	1195	1285
50°	1078	1175	1292
55°	1038	1167	1305
60°	991	1160	1331
65°	940	1161	1376
70°	869	1180	1449
75°	777	1234	1379
80°	650	1181	1263
85°	491	908	863



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	93.4	3.3
10°-20°	265.9	9.4
20°-30°	397.5	14.1
30°-40°	471.6	16.7
40°-50°	485.4	17.2
50°-60°	445.2	15.8
60°-70°	360.0	12.8
70°-80°	233.6	8.3
80°-90°	64.4	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°	756.8	26.9
0°-40°	1228.4	43.6
0°-60°	2159.0	76.6
0°-90°	2817.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2817.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	989	989	989	989	989	
5°	988	981	985	984	983	94
15°	939	936	944	948	951	265
25°	849	850	865	873	880	391
35°	726	732	756	773	783	454
45°	587	597	628	658	675	453
55°	443	456	498	538	556	395
65°	295	312	365	413	432	292
75°	150	178	237	265	265	159
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°	988.6	988.6	988.6	988.6	988.6
2.5°	992.5	984.8	988.6	987.7	982.8
5°	987.7	980.9	984.8	983.8	982.8
7.5°	980.9	974.2	979.0	978.0	979.0
10°	969.3	963.5	969.3	970.3	970.3
12.5°	954.9	950.0	957.8	959.7	961.6
15°	939.4	935.6	944.3	948.1	951.0
17.5°	920.1	917.2	927.9	932.7	936.5
20°	898.9	898.0	909.5	914.4	919.2
22.5°	874.8	874.8	888.3	894.1	900.9
25°	848.8	849.7	865.2	872.9	879.6
27.5°	820.8	821.8	840.1	849.7	857.4
30°	789.9	793.8	813.1	825.6	834.3
32.5°	759.1	763.9	785.1	799.6	809.2
35°	726.3	732.1	756.2	772.6	783.2
37.5°	692.5	699.3	725.3	743.6	756.2
40°	658.8	666.5	693.5	714.7	729.2
42.5°	623.1	631.8	661.7	686.7	702.2
45°	587.4	597.0	627.9	657.8	675.2
47.5°	551.7	563.3	596.1	628.9	647.2
50°	515.0	526.6	561.3	599.0	617.3
52.5°	478.4	491.9	530.5	569.1	587.4
55°	442.7	456.2	497.7	538.2	556.5
57.5°	406.1	419.6	464.9	507.3	525.7
60°	368.4	383.9	431.1	474.5	494.8
62.5°	331.8	348.2	398.3	444.6	463.9
65°	295.1	312.5	364.6	412.8	432.1
67.5°	257.5	277.8	331.8	381.0	401.2
70°	220.9	243.1	300.0	349.2	368.4
72.5°	185.2	209.3	268.1	318.3	329.9
75°	149.5	177.5	237.3	265.2	265.2
77.5°	115.7	146.6	202.5	213.2	218.9
80°	83.9	117.7	152.4	164.9	163.0
82.5°	55.9	89.7	109.0	109.0	106.1
85°	31.8	54.0	58.8	56.9	55.9
87.5°	13.5	20.3	18.3	14.5	12.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)