

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: P260632

Luminaire Tested: **24CZ-LD5-35-UNV-L93050-W2A1-U-3000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P260632  
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-L93050-W2A1-U-3000K  
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS  
Light Source: (336) 90 CRI LEDS TUNED AT 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2737.8 lumens  
Efficiency: N/A  
Efficacy: 110.7 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

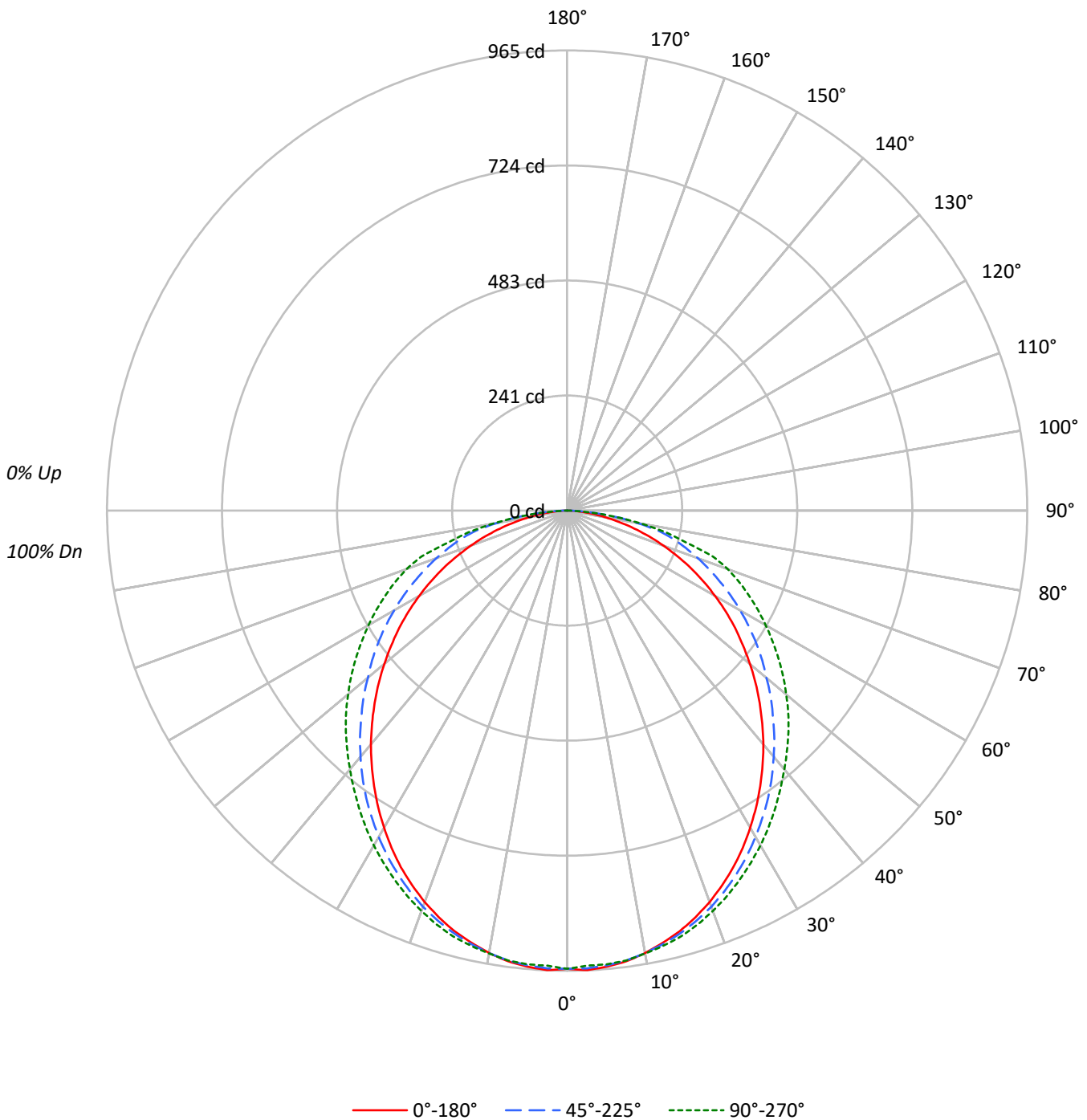
Input Watts (W): 24.73614  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1293	1293	1293
5°	1296	1293	1290
10°	1287	1287	1288
15°	1272	1278	1288
20°	1251	1266	1279
25°	1225	1248	1269
30°	1193	1228	1260
35°	1159	1207	1250
40°	1124	1184	1245
45°	1086	1161	1249
50°	1048	1142	1256
55°	1009	1135	1269
60°	964	1128	1294
65°	913	1128	1337
70°	845	1147	1409
75°	755	1199	1340
80°	632	1148	1227
85°	477	883	840



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	90.8	3.3
10°-20°	258.4	9.4
20°-30°	386.3	14.1
30°-40°	458.3	16.7
40°-50°	471.7	17.2
50°-60°	432.7	15.8
60°-70°	349.9	12.8
70°-80°	227.1	8.3
80°-90°	62.6	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°	735.5	26.9
0°-40°	1193.8	43.6
0°-60°	2098.2	76.6
0°-90°	2737.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2737.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	961	961	961	961	961	
5°	960	953	957	956	955	91
15°	913	909	918	921	924	257
25°	825	826	841	848	855	380
35°	706	712	735	751	761	441
45°	571	580	610	639	656	441
55°	430	443	484	523	541	384
65°	287	304	354	401	420	283
75°	145	172	231	258	258	154
85°	31	52	57	55	54	38
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	960.8	960.8	960.8	960.8	960.8
2.5°	964.6	957.1	960.8	959.9	955.2
5°	959.9	953.3	957.1	956.1	955.2
7.5°	953.3	946.8	951.4	950.5	951.4
10°	942.1	936.4	942.1	943.0	943.0
12.5°	928.0	923.3	930.8	932.7	934.6
15°	913.0	909.3	917.7	921.4	924.3
17.5°	894.3	891.5	901.8	906.5	910.2
20°	873.6	872.7	884.0	888.6	893.3
22.5°	850.2	850.2	863.3	869.0	875.5
25°	824.9	825.8	840.8	848.3	854.9
27.5°	797.7	798.7	816.5	825.8	833.3
30°	767.7	771.5	790.2	802.4	810.8
32.5°	737.7	742.4	763.0	777.1	786.5
35°	705.9	711.5	734.9	750.8	761.2
37.5°	673.0	679.6	704.9	722.7	734.9
40°	640.2	647.7	674.0	694.6	708.7
42.5°	605.6	614.0	643.0	667.4	682.4
45°	570.9	580.2	610.2	639.3	656.2
47.5°	536.2	547.4	579.3	611.2	629.0
50°	500.6	511.8	545.6	582.1	599.9
52.5°	464.9	478.1	515.6	553.1	570.9
55°	430.3	443.4	483.7	523.1	540.9
57.5°	394.6	407.8	451.8	493.1	510.9
60°	358.1	373.1	419.0	461.2	480.9
62.5°	322.5	338.4	387.1	432.1	450.9
65°	286.8	303.7	354.3	401.2	419.9
67.5°	250.3	270.0	322.5	370.3	390.0
70°	214.7	236.2	291.5	339.3	358.1
72.5°	180.0	203.4	260.6	309.3	320.6
75°	145.3	172.5	230.6	257.8	257.8
77.5°	112.5	142.5	196.9	207.2	212.8
80°	81.6	114.4	148.1	160.3	158.4
82.5°	54.4	87.2	105.9	105.9	103.1
85°	30.9	52.5	57.2	55.3	54.4
87.5°	13.1	19.7	17.8	14.1	12.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)