

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: P260627

Luminaire Tested: **24CZ-LD5-30-UNV-L93050-W2A1-U-3000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P260627  
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-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: 2388.4 lumens  
Efficiency: N/A  
Efficacy: 119.0 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

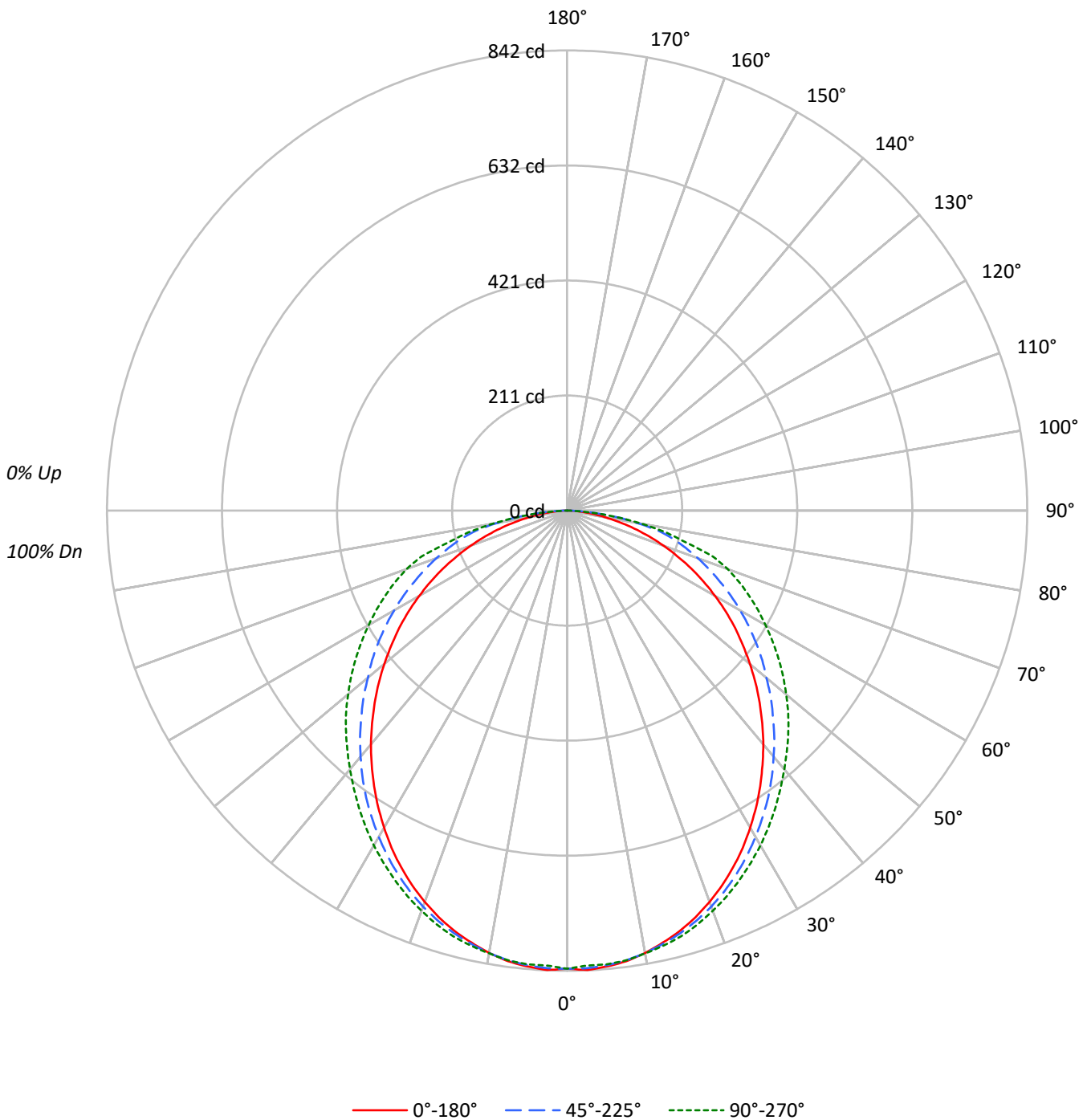
Input Watts (W): 20.074329  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1128	1128	1128
5°	1131	1128	1125
10°	1123	1123	1124
15°	1109	1115	1123
20°	1091	1104	1116
25°	1068	1089	1107
30°	1041	1071	1099
35°	1011	1053	1091
40°	981	1033	1086
45°	948	1013	1089
50°	914	996	1096
55°	881	990	1107
60°	841	984	1129
65°	797	984	1167
70°	737	1000	1229
75°	659	1046	1169
80°	551	1001	1071
85°	417	770	732



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	79.2	3.3
10°-20°	225.4	9.4
20°-30°	337.0	14.1
30°-40°	399.8	16.7
40°-50°	411.5	17.2
50°-60°	377.5	15.8
60°-70°	305.2	12.8
70°-80°	198.1	8.3
80°-90°	54.6	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°	641.7	26.9
0°-40°	1041.5	43.6
0°-60°	1830.5	76.6
0°-90°	2388.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2388.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	838	838	838	838	838	
5°	837	832	835	834	833	79
15°	796	793	801	804	806	224
25°	720	720	734	740	746	331
35°	616	621	641	655	664	385
45°	498	506	532	558	572	384
55°	375	387	422	456	472	335
65°	250	265	309	350	366	247
75°	127	150	201	225	225	135
85°	27	46	50	48	47	33
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	838.2	838.2	838.2	838.2	838.2
2.5°	841.5	835.0	838.2	837.4	833.3
5°	837.4	831.7	835.0	834.1	833.3
7.5°	831.7	826.0	830.0	829.2	830.0
10°	821.9	817.0	821.9	822.7	822.7
12.5°	809.6	805.5	812.1	813.7	815.3
15°	796.5	793.2	800.6	803.9	806.3
17.5°	780.2	777.7	786.7	790.8	794.1
20°	762.2	761.4	771.2	775.3	779.3
22.5°	741.7	741.7	753.2	758.1	763.8
25°	719.6	720.5	733.5	740.1	745.8
27.5°	695.9	696.7	712.3	720.5	727.0
30°	669.8	673.0	689.4	700.0	707.4
32.5°	643.6	647.7	665.7	677.9	686.1
35°	615.8	620.7	641.1	655.0	664.0
37.5°	587.2	592.9	615.0	630.5	641.1
40°	558.5	565.1	588.0	606.0	618.2
42.5°	528.3	535.6	561.0	582.3	595.3
45°	498.0	506.2	532.4	557.7	572.4
47.5°	467.8	477.6	505.4	533.2	548.7
50°	436.7	446.5	475.9	507.8	523.4
52.5°	405.6	417.1	449.8	482.5	498.0
55°	375.4	386.8	422.0	456.3	471.9
57.5°	344.3	355.7	394.2	430.2	445.7
60°	312.4	325.5	365.5	402.3	419.5
62.5°	281.3	295.2	337.7	377.0	393.4
65°	250.2	265.0	309.1	350.0	366.4
67.5°	218.3	235.5	281.3	323.0	340.2
70°	187.3	206.1	254.3	296.0	312.4
72.5°	157.0	177.5	227.3	269.9	279.7
75°	126.8	150.5	201.2	224.9	224.9
77.5°	98.1	124.3	171.7	180.7	185.6
80°	71.1	99.8	129.2	139.8	138.2
82.5°	47.4	76.1	92.4	92.4	90.0
85°	27.0	45.8	49.9	48.2	47.4
87.5°	11.4	17.2	15.5	12.3	10.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)