

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: P230477

Luminaire Tested: **24CZ-LD5-50-RDP-UNV-L935-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P230477  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25696)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24CZ-LD5-50-RDP-UNV-L935-CD1-U  
Description: CRUZE 2x4 LED TROFFER  
WITH RDP LENS  
Light Source: (168) 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2828.2 lumens  
Efficiency: N/A  
Efficacy: 69.5 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.3 / 1.41  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

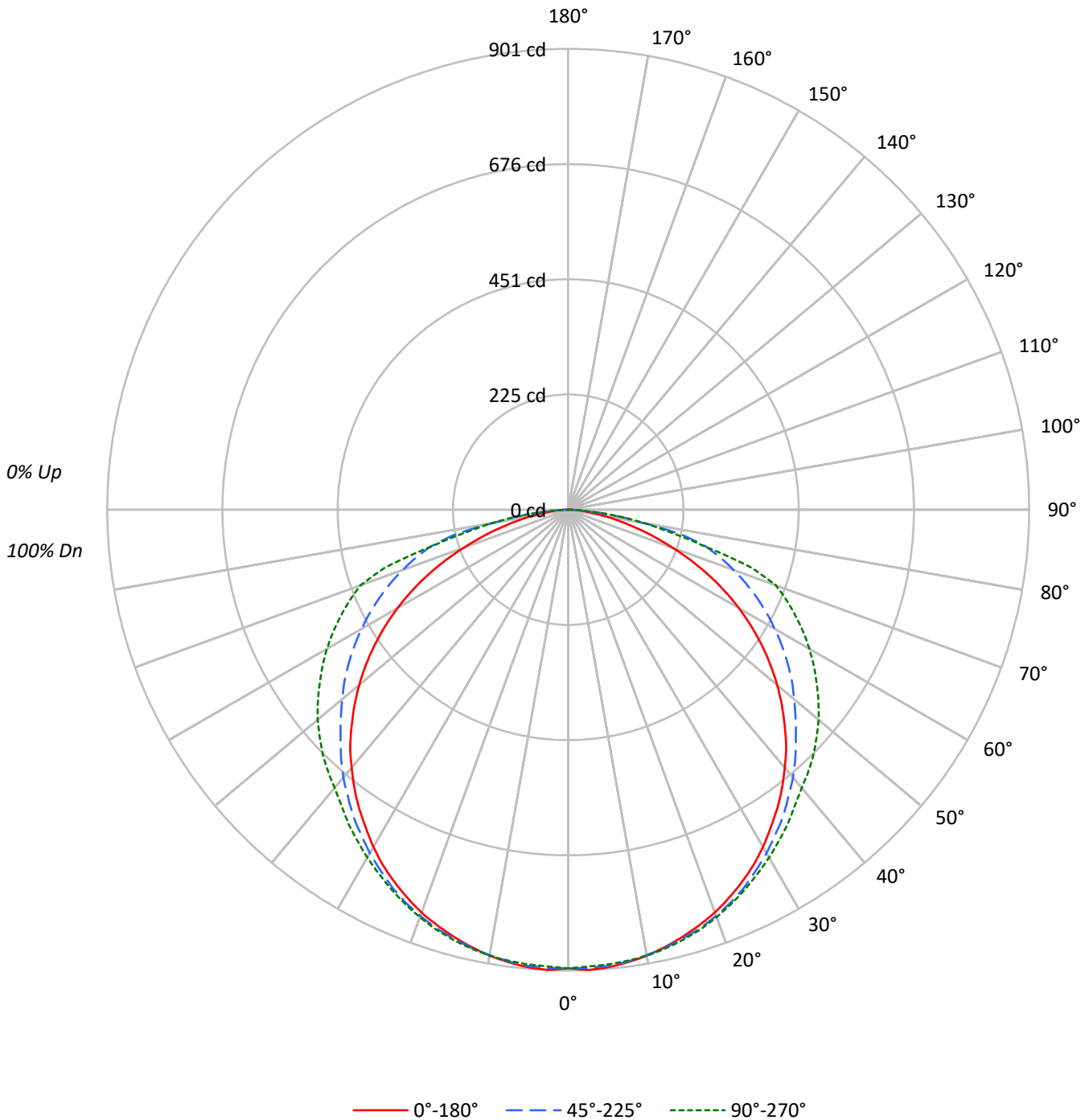
Input Watts (W): 40.68  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	98	94	105	101	97	93	96	93	90	92	90	87	89	87	84	82
2	98	89	82	76	95	87	80	75	83	78	73	80	75	71	77	73	70	67
3	89	78	69	62	86	76	68	62	73	66	60	70	64	59	67	62	58	56
4	81	68	59	52	78	67	58	52	64	57	51	62	56	50	60	54	50	47
5	74	61	51	45	72	60	51	44	57	50	44	55	49	43	54	48	43	41
6	68	55	45	39	66	54	45	38	52	44	38	50	43	38	48	42	37	35
7	63	49	40	34	61	48	40	34	47	39	34	45	38	33	44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	29	27
9	55	41	33	27	53	41	32	27	39	32	27	38	32	27	37	31	27	25
10	51	38	30	24	50	37	30	24	36	29	24	35	29	24	35	28	24	22

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

	0°	45°	90°
0°	1206	1206	1206
5°	1213	1209	1205
10°	1210	1208	1210
15°	1204	1208	1212
20°	1200	1210	1214
25°	1193	1209	1215
30°	1183	1205	1220
35°	1171	1203	1230
40°	1157	1201	1247
45°	1139	1197	1290
50°	1116	1207	1338
55°	1084	1228	1391
60°	1038	1255	1465
65°	966	1294	1560
70°	854	1353	1698
75°	716	1447	1426
80°	572	1144	1186
85°	451	773	709



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	85.0	3.0
10°-20°	244.7	8.7
20°-30°	373.8	13.2
30°-40°	457.0	16.2
40°-50°	489.2	17.3
50°-60°	469.2	16.6
60°-70°	396.2	14.0
70°-80°	253.2	9.0
80°-90°	59.9	2.1
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°	703.6	24.9
0°-40°	1160.6	41.0
0°-60°	2119.0	74.9
0°-90°	2828.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2828.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	897	897	897	897	897	
5°	898	892	895	894	892	85
15°	865	862	867	870	870	244
25°	803	802	814	817	819	370
35°	713	718	732	742	749	446
45°	599	608	629	658	678	462
55°	462	478	524	571	593	412
65°	304	333	406	464	490	299
75°	138	196	278	284	274	148
85°	29	49	50	49	46	35
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	896.6	896.6	896.6	896.6	896.6
2.5°	900.8	895.2	896.6	896.6	893.8
5°	898.0	892.4	895.2	893.8	892.4
7.5°	892.4	888.2	891.0	891.0	889.6
10°	885.4	881.3	884.1	885.4	885.4
12.5°	875.7	872.9	877.1	877.1	878.5
15°	864.6	861.8	867.3	870.1	870.1
17.5°	852.0	850.6	857.6	859.0	860.4
20°	838.1	836.7	845.1	845.1	847.9
22.5°	821.4	820.0	831.1	831.1	833.9
25°	803.3	801.9	814.4	817.2	818.6
27.5°	783.8	782.4	795.0	799.1	801.9
30°	761.5	761.5	775.5	781.0	785.2
32.5°	736.5	740.7	753.2	761.5	767.1
35°	712.8	718.4	732.3	742.0	749.0
37.5°	686.4	691.9	707.2	719.8	728.1
40°	658.5	665.5	683.6	697.5	710.0
42.5°	630.7	637.6	657.1	678.0	694.7
45°	598.6	608.4	629.3	658.5	678.0
47.5°	566.6	576.4	602.8	639.0	658.5
50°	533.2	544.4	576.4	618.1	639.0
52.5°	498.4	510.9	551.3	595.9	616.7
55°	462.2	477.5	523.5	570.8	593.1
57.5°	424.6	441.3	495.6	545.7	569.4
60°	385.6	406.5	466.4	519.3	544.4
62.5°	345.3	370.3	437.2	491.4	517.9
65°	303.5	332.7	406.5	463.6	490.1
67.5°	260.3	299.3	375.9	435.8	462.2
70°	217.2	263.1	343.9	405.1	431.6
72.5°	176.8	229.7	311.9	368.9	374.5
75°	137.8	196.3	278.4	284.0	274.3
77.5°	103.0	162.9	229.7	204.7	203.3
80°	73.8	130.9	147.6	151.8	153.1
82.5°	48.7	98.8	96.1	98.8	97.5
85°	29.2	48.7	50.1	48.7	45.9
87.5°	13.9	18.1	13.9	12.5	11.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)