

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: P260848

Luminaire Tested: **24CZ-LD5-35-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P260848  
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-L92765-W2A1-U-3500K  
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS  
Light Source: (336) 90 CRI LEDS TUNED AT 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3011.0 lumens  
Efficiency: N/A  
Efficacy: 124.0 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

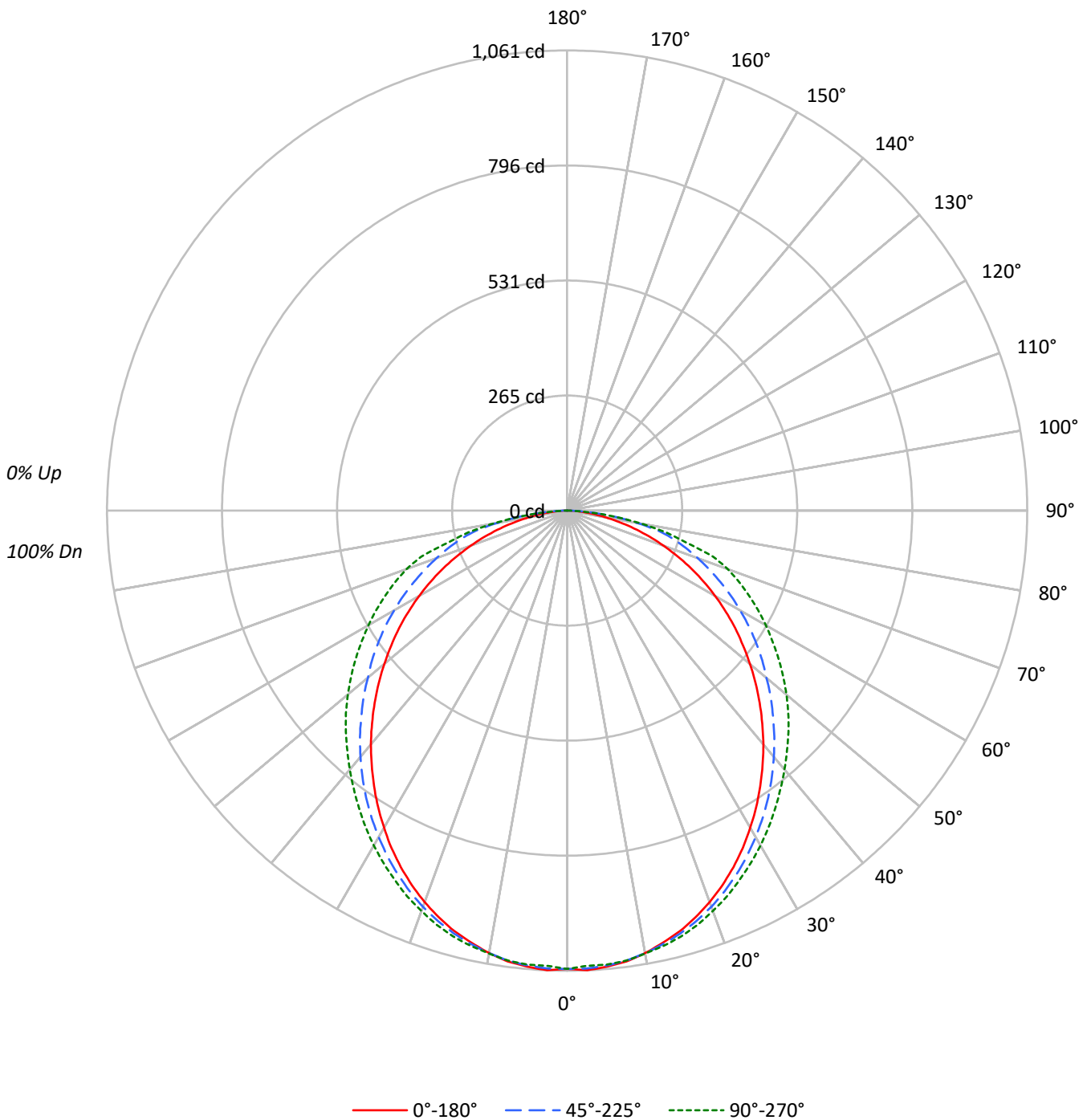
Input Watts (W): 24.273  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1422	1422	1422
5°	1426	1422	1419
10°	1416	1416	1417
15°	1399	1406	1416
20°	1376	1392	1407
25°	1347	1373	1396
30°	1312	1350	1386
35°	1275	1328	1375
40°	1237	1302	1369
45°	1195	1277	1373
50°	1152	1256	1381
55°	1110	1248	1395
60°	1060	1240	1423
65°	1004	1241	1471
70°	929	1261	1549
75°	831	1318	1474
80°	695	1262	1350
85°	525	971	923



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	99.9	3.3
10°-20°	284.2	9.4
20°-30°	424.9	14.1
30°-40°	504.0	16.7
40°-50°	518.8	17.2
50°-60°	475.9	15.8
60°-70°	384.8	12.8
70°-80°	249.7	8.3
80°-90°	68.9	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°	808.9	26.9
0°-40°	1313.0	43.6
0°-60°	2307.6	76.6
0°-90°	3011.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3011.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1057	1057	1057	1057	1057	
5°	1056	1048	1053	1052	1050	100
15°	1004	1000	1009	1013	1016	283
25°	907	908	925	933	940	418
35°	776	782	808	826	837	485
45°	628	638	671	703	722	485
55°	473	488	532	575	595	423
65°	316	334	390	441	462	312
75°	160	190	254	284	284	170
85°	34	58	63	61	60	42
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1056.7	1056.7	1056.7	1056.7	1056.7
2.5°	1060.8	1052.6	1056.7	1055.7	1050.5
5°	1055.7	1048.5	1052.6	1051.5	1050.5
7.5°	1048.5	1041.2	1046.4	1045.4	1046.4
10°	1036.1	1029.9	1036.1	1037.1	1037.1
12.5°	1020.6	1015.5	1023.7	1025.8	1027.8
15°	1004.1	1000.0	1009.3	1013.4	1016.5
17.5°	983.5	980.4	991.8	996.9	1001.0
20°	960.8	959.8	972.2	977.3	982.5
22.5°	935.1	935.1	949.5	955.7	962.9
25°	907.2	908.3	924.7	933.0	940.2
27.5°	877.3	878.4	897.9	908.3	916.5
30°	844.3	848.5	869.1	882.5	891.8
32.5°	811.3	816.5	839.2	854.6	865.0
35°	776.3	782.5	808.3	825.8	837.1
37.5°	740.2	747.4	775.3	794.8	808.3
40°	704.1	712.4	741.2	763.9	779.4
42.5°	666.0	675.3	707.2	734.0	750.5
45°	627.8	638.1	671.1	703.1	721.7
47.5°	589.7	602.1	637.1	672.2	691.8
50°	550.5	562.9	600.0	640.2	659.8
52.5°	511.3	525.8	567.0	608.2	627.8
55°	473.2	487.6	532.0	575.3	594.8
57.5°	434.0	448.5	496.9	542.3	561.9
60°	393.8	410.3	460.8	507.2	528.9
62.5°	354.6	372.2	425.8	475.3	495.9
65°	315.5	334.0	389.7	441.2	461.9
67.5°	275.3	296.9	354.6	407.2	428.9
70°	236.1	259.8	320.6	373.2	393.8
72.5°	197.9	223.7	286.6	340.2	352.6
75°	159.8	189.7	253.6	283.5	283.5
77.5°	123.7	156.7	216.5	227.8	234.0
80°	89.7	125.8	162.9	176.3	174.2
82.5°	59.8	95.9	116.5	116.5	113.4
85°	34.0	57.7	62.9	60.8	59.8
87.5°	14.4	21.6	19.6	15.5	13.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)