

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: P263796

Luminaire Tested: **24CZ-LD5-40-RDP-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P263796  
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-LD5-40-RDP-UNV-L92765-W2A1-U-3000K  
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER  
WITH RDP LENS  
Light Source: (336) 90 CRI LEDS TUNED AT 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2307.0 lumens  
Efficiency: N/A  
Efficacy: 82.4 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

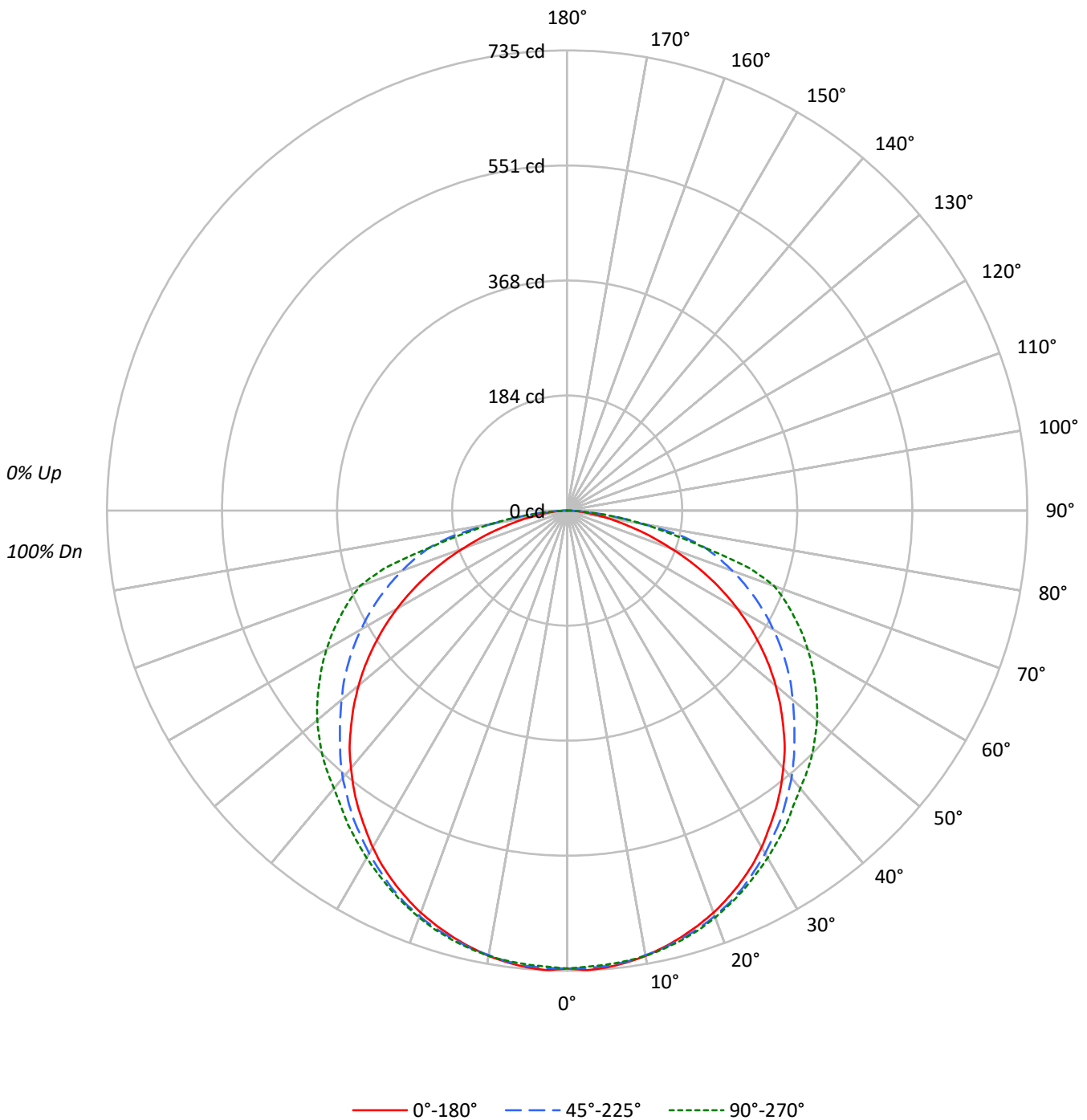
Input Watts (W): 27.993  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	984	984	984
5°	989	986	983
10°	987	985	987
15°	982	986	989
20°	979	987	990
25°	973	986	991
30°	965	983	995
35°	955	981	1004
40°	943	979	1017
45°	929	977	1052
50°	910	984	1091
55°	884	1002	1135
60°	847	1024	1195
65°	788	1056	1273
70°	697	1103	1385
75°	584	1181	1163
80°	466	933	968
85°	367	631	579



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	69.4	3.0
10°-20°	199.6	8.7
20°-30°	304.9	13.2
30°-40°	372.8	16.2
40°-50°	399.0	17.3
50°-60°	382.7	16.6
60°-70°	323.2	14.0
70°-80°	206.5	9.0
80°-90°	48.8	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°	573.9	24.9
0°-40°	946.7	41.0
0°-60°	1728.4	74.9
0°-90°	2307.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2307.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	731	731	731	731	731	
5°	732	728	730	729	728	70
15°	705	703	708	710	710	199
25°	655	654	664	667	668	302
35°	581	586	597	605	611	364
45°	488	496	513	537	553	377
55°	377	390	427	466	484	336
65°	248	271	332	378	400	244
75°	112	160	227	232	224	121
85°	24	40	41	40	38	29
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	731.3	731.3	731.3	731.3	731.3
2.5°	734.7	730.2	731.3	731.3	729.1
5°	732.5	727.9	730.2	729.1	727.9
7.5°	727.9	724.5	726.8	726.8	725.7
10°	722.3	718.8	721.1	722.3	722.3
12.5°	714.3	712.0	715.4	715.4	716.6
15°	705.2	702.9	707.5	709.8	709.8
17.5°	695.0	693.9	699.5	700.7	701.8
20°	683.6	682.5	689.3	689.3	691.6
22.5°	670.0	668.9	678.0	678.0	680.2
25°	655.3	654.1	664.3	666.6	667.7
27.5°	639.4	638.2	648.4	651.8	654.1
30°	621.2	621.2	632.5	637.1	640.5
32.5°	600.7	604.1	614.4	621.2	625.7
35°	581.4	586.0	597.3	605.3	611.0
37.5°	559.9	564.4	576.9	587.1	593.9
40°	537.1	542.8	557.6	568.9	579.2
42.5°	514.4	520.1	536.0	553.0	566.7
45°	488.3	496.3	513.3	537.1	553.0
47.5°	462.2	470.1	491.7	521.2	537.1
50°	434.9	444.0	470.1	504.2	521.2
52.5°	406.6	416.8	449.7	486.0	503.1
55°	377.0	389.5	427.0	465.6	483.8
57.5°	346.4	360.0	404.3	445.2	464.5
60°	314.6	331.6	380.4	423.6	444.0
62.5°	281.6	302.1	356.6	400.9	422.5
65°	247.6	271.4	331.6	378.2	399.7
67.5°	212.4	244.2	306.6	355.4	377.0
70°	177.2	214.6	280.5	330.5	352.0
72.5°	144.2	187.4	254.4	300.9	305.5
75°	112.4	160.1	227.1	231.7	223.7
77.5°	84.0	132.9	187.4	166.9	165.8
80°	60.2	106.7	120.4	123.8	124.9
82.5°	39.7	80.6	78.4	80.6	79.5
85°	23.8	39.7	40.9	39.7	37.5
87.5°	11.4	14.8	11.4	10.2	9.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)