

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: P263886

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P263886  
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-LD5-40SE-RDP-UNV-L92765-W2A1-U-3000K  
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER  
WITH RDP LENS  
Light Source: (168) 90 CRI LEDS TUNED AT 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2293.0 lumens  
Efficiency: N/A  
Efficacy: 76.1 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

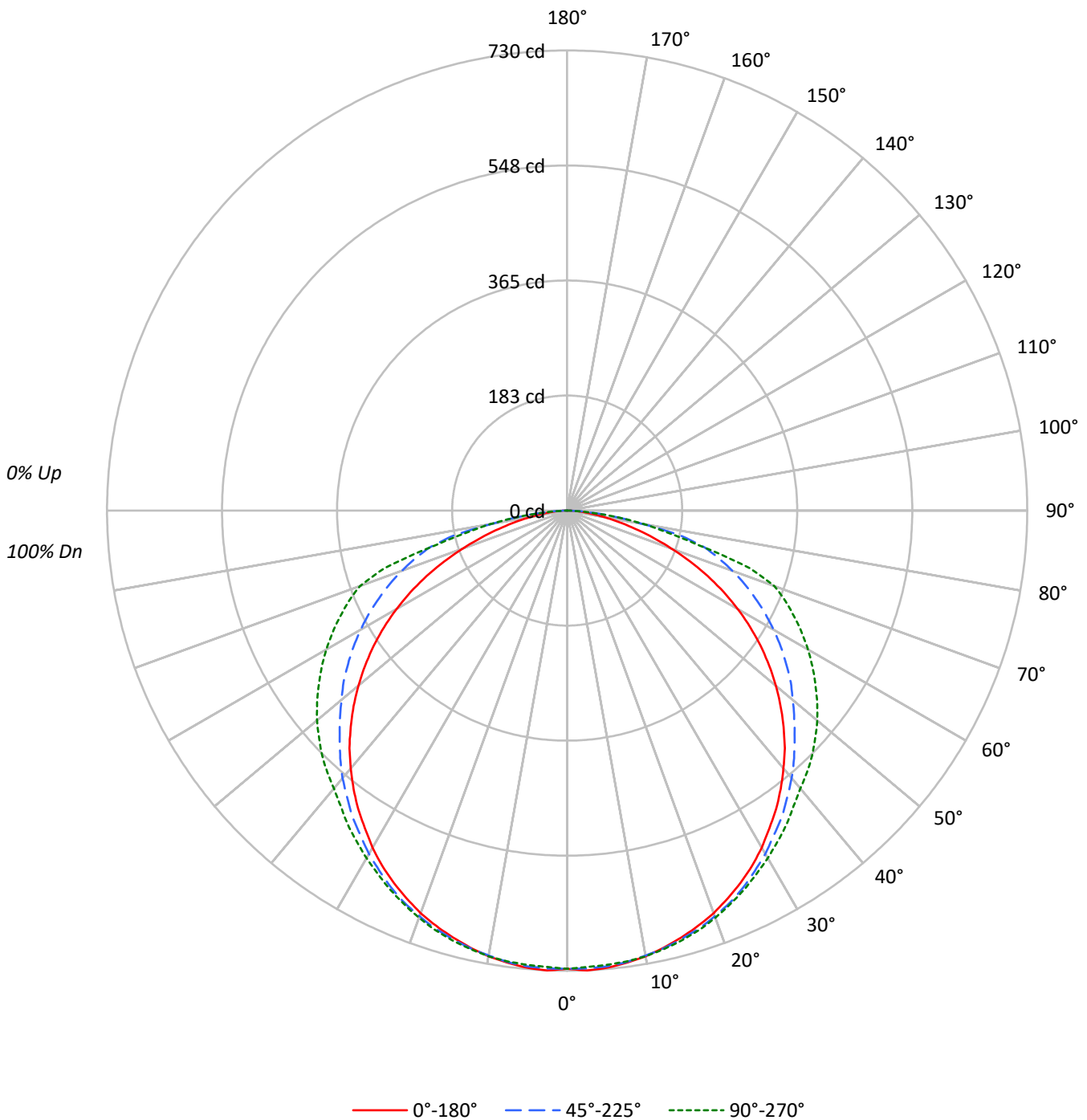
Input Watts (W): 30.132  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	978	978	978
5°	983	980	977
10°	981	979	981
15°	976	980	983
20°	973	981	984
25°	967	980	985
30°	959	977	989
35°	949	975	998
40°	938	973	1011
45°	924	971	1046
50°	905	978	1084
55°	879	996	1128
60°	841	1017	1188
65°	784	1049	1265
70°	693	1097	1376
75°	581	1173	1156
80°	463	927	962
85°	366	627	574



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	68.9	3.0
10°-20°	198.4	8.7
20°-30°	303.1	13.2
30°-40°	370.5	16.2
40°-50°	396.6	17.3
50°-60°	380.4	16.6
60°-70°	321.2	14.0
70°-80°	205.3	9.0
80°-90°	48.5	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°	570.4	24.9
0°-40°	940.9	41.0
0°-60°	1718.0	74.9
0°-90°	2293.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2293.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	727	727	727	727	727	
5°	728	724	726	725	724	69
15°	701	699	703	706	706	198
25°	651	650	660	663	664	300
35°	578	582	594	602	607	361
45°	485	493	510	534	550	374
55°	375	387	424	463	481	334
65°	246	270	330	376	397	243
75°	112	159	226	230	222	120
85°	24	40	41	40	37	28
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	726.9	726.9	726.9	726.9	726.9
2.5°	730.3	725.8	726.9	726.9	724.6
5°	728.0	723.5	725.8	724.6	723.5
7.5°	723.5	720.1	722.4	722.4	721.3
10°	717.9	714.5	716.7	717.9	717.9
12.5°	710.0	707.7	711.1	711.1	712.2
15°	700.9	698.7	703.2	705.5	705.5
17.5°	690.8	689.7	695.3	696.4	697.6
20°	679.5	678.4	685.1	685.1	687.4
22.5°	665.9	664.8	673.8	673.8	676.1
25°	651.3	650.1	660.3	662.6	663.7
27.5°	635.5	634.3	644.5	647.9	650.1
30°	617.4	617.4	628.7	633.2	636.6
32.5°	597.1	600.5	610.6	617.4	621.9
35°	577.9	582.4	593.7	601.6	607.3
37.5°	556.5	561.0	573.4	583.6	590.3
40°	533.9	539.5	554.2	565.5	575.7
42.5°	511.3	517.0	532.8	549.7	563.2
45°	485.4	493.3	510.2	533.9	549.7
47.5°	459.4	467.3	488.7	518.1	533.9
50°	432.3	441.3	467.3	501.2	518.1
52.5°	404.1	414.2	447.0	483.1	500.0
55°	374.7	387.2	424.4	462.8	480.8
57.5°	344.3	357.8	401.8	442.5	461.6
60°	312.7	329.6	378.1	421.0	441.3
62.5°	279.9	300.2	354.4	398.4	419.9
65°	246.1	269.8	329.6	375.9	397.3
67.5°	211.1	242.7	304.8	353.3	374.7
70°	176.1	213.3	278.8	328.5	349.9
72.5°	143.3	186.2	252.8	299.1	303.6
75°	111.7	159.2	225.7	230.3	222.4
77.5°	83.5	132.1	186.2	165.9	164.8
80°	59.8	106.1	119.6	123.0	124.2
82.5°	39.5	80.1	77.9	80.1	79.0
85°	23.7	39.5	40.6	39.5	37.2
87.5°	11.3	14.7	11.3	10.2	9.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)