

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: P263804

Luminaire Tested: **24CZ-LD5-45-RDP-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P263804  
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-LD5-45-RDP-UNV-L92765-W2A1-U-2700K  
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER  
WITH RDP LENS  
Light Source: (336) 90 CRI LEDS TUNED AT 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2443.0 lumens  
Efficiency: N/A  
Efficacy: 77.9 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

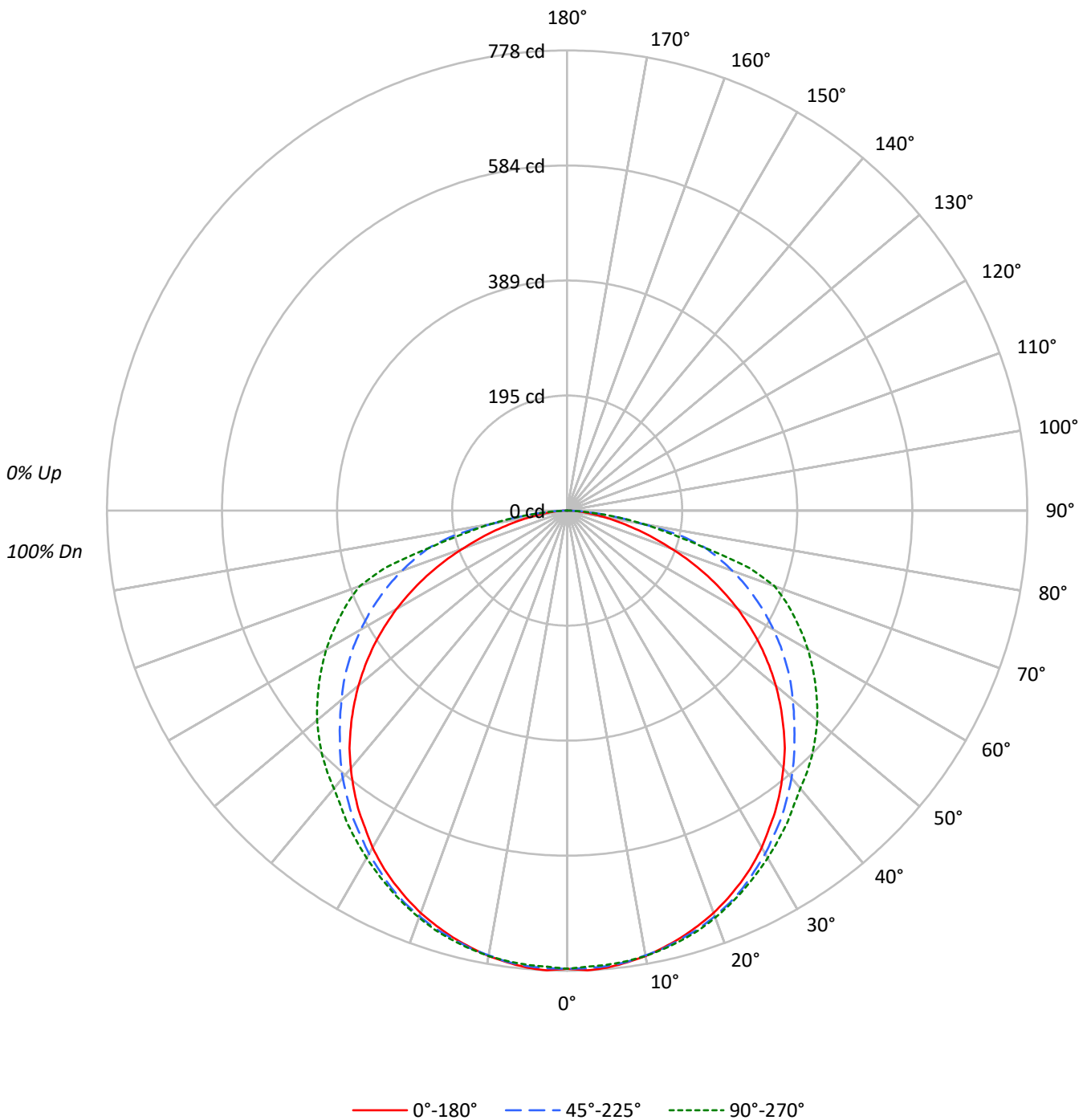
Input Watts (W): 31.341  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	61	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°	1042	1042	1042
5°	1048	1044	1041
10°	1045	1043	1045
15°	1040	1044	1047
20°	1037	1045	1049
25°	1030	1044	1050
30°	1022	1041	1054
35°	1011	1039	1063
40°	999	1037	1077
45°	984	1034	1114
50°	964	1042	1155
55°	937	1061	1202
60°	896	1084	1265
65°	835	1118	1348
70°	738	1168	1467
75°	619	1250	1232
80°	494	988	1025
85°	391	668	613



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	73.5	3.0
10°-20°	211.4	8.7
20°-30°	322.9	13.2
30°-40°	394.8	16.2
40°-50°	422.5	17.3
50°-60°	405.3	16.6
60°-70°	342.2	14.0
70°-80°	218.7	9.0
80°-90°	51.7	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°	607.7	24.9
0°-40°	1002.5	41.0
0°-60°	1830.4	74.9
0°-90°	2443.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2443.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	774	774	774	774	774	
5°	776	771	773	772	771	74
15°	747	744	749	752	752	211
25°	694	693	704	706	707	320
35°	616	620	632	641	647	385
45°	517	526	544	569	586	399
55°	399	412	452	493	512	356
65°	262	287	351	400	423	259
75°	119	170	240	245	237	128
85°	25	42	43	42	40	30
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	774.5	774.5	774.5	774.5	774.5
2.5°	778.1	773.2	774.5	774.5	772.0
5°	775.7	770.8	773.2	772.0	770.8
7.5°	770.8	767.2	769.6	769.6	768.4
10°	764.8	761.2	763.6	764.8	764.8
12.5°	756.4	754.0	757.6	757.6	758.8
15°	746.8	744.4	749.2	751.6	751.6
17.5°	736.0	734.8	740.8	742.0	743.2
20°	723.9	722.7	730.0	730.0	732.4
22.5°	709.5	708.3	717.9	717.9	720.3
25°	693.9	692.7	703.5	705.9	707.1
27.5°	677.0	675.8	686.7	690.3	692.7
30°	657.8	657.8	669.8	674.6	678.2
32.5°	636.2	639.8	650.6	657.8	662.6
35°	615.7	620.5	632.5	641.0	647.0
37.5°	592.9	597.7	610.9	621.7	628.9
40°	568.8	574.8	590.5	602.5	613.3
42.5°	544.8	550.8	567.6	585.6	600.1
45°	517.1	525.5	543.6	568.8	585.6
47.5°	489.4	497.9	520.7	552.0	568.8
50°	460.6	470.2	497.9	533.9	552.0
52.5°	430.5	441.3	476.2	514.7	532.7
55°	399.3	412.5	452.2	493.1	512.3
57.5°	366.8	381.2	428.1	471.4	491.8
60°	333.1	351.1	402.9	448.6	470.2
62.5°	298.2	319.9	377.6	424.5	447.4
65°	262.2	287.4	351.1	400.5	423.3
67.5°	224.9	258.6	324.7	376.4	399.3
70°	187.6	227.3	297.0	349.9	372.8
72.5°	152.7	198.4	269.4	318.7	323.5
75°	119.1	169.6	240.5	245.3	236.9
77.5°	89.0	140.7	198.4	176.8	175.6
80°	63.7	113.0	127.5	131.1	132.3
82.5°	42.1	85.4	83.0	85.4	84.2
85°	25.3	42.1	43.3	42.1	39.7
87.5°	12.0	15.6	12.0	10.8	9.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)