

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: P263759

Luminaire Tested: **24CZ-LD5-45SE-RDP-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P263759  
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-LD5-45SE-RDP-UNV-L82765-W2A1-U-2700K  
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH RDP LENS  
Light Source: (168) 80 CRI LEDS TUNED AT 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2891.0 lumens  
Efficiency: N/A  
Efficacy: 82.7 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

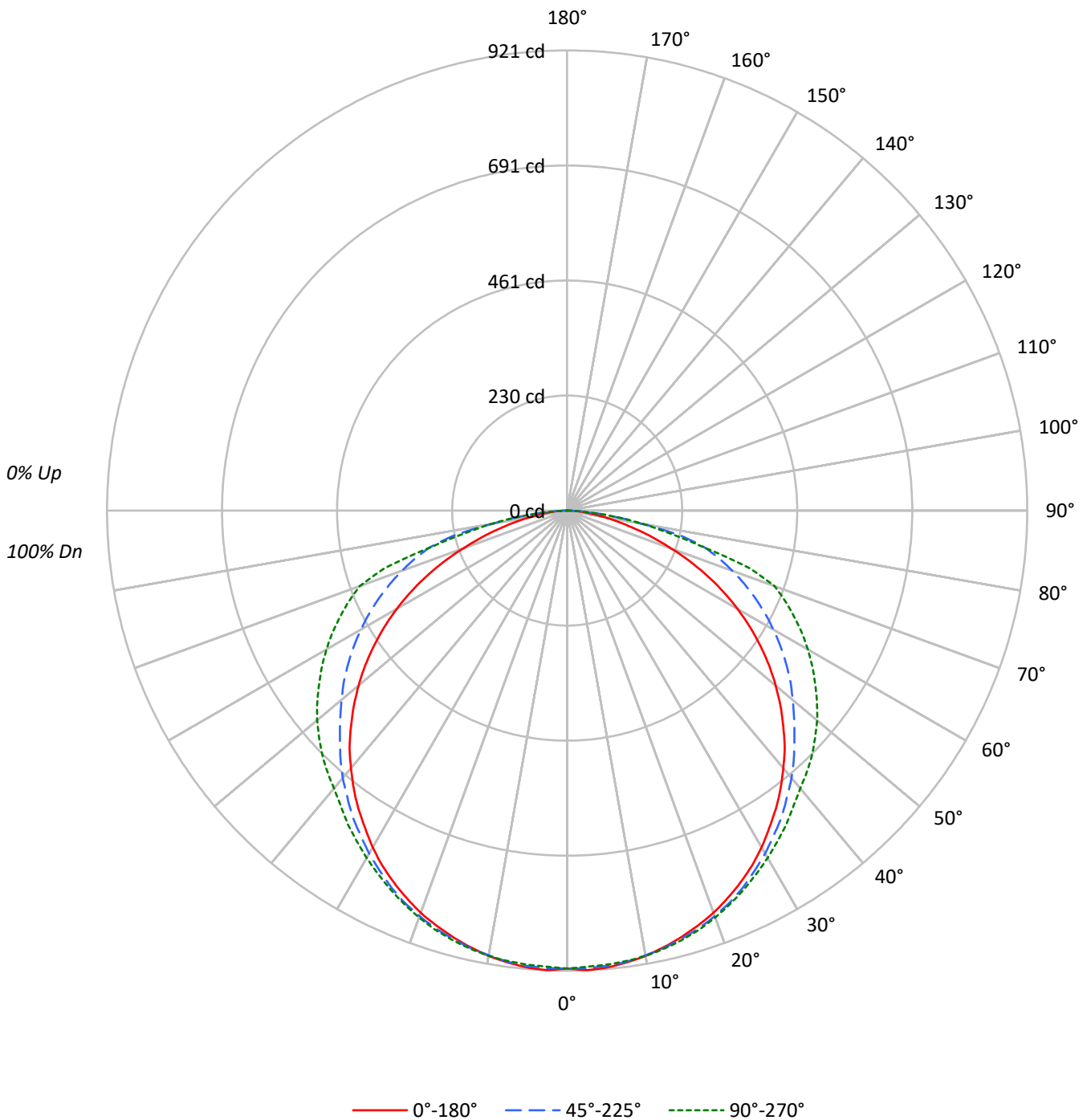
Input Watts (W): 34.968  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1233	1233	1233
5°	1240	1236	1232
10°	1237	1235	1237
15°	1231	1235	1239
20°	1227	1237	1241
25°	1219	1236	1242
30°	1209	1232	1247
35°	1197	1229	1258
40°	1182	1227	1275
45°	1164	1224	1319
50°	1141	1233	1367
55°	1108	1255	1422
60°	1061	1283	1497
65°	988	1323	1595
70°	873	1383	1736
75°	732	1480	1457
80°	584	1168	1213
85°	462	790	726



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	86.9	3.0
10°-20°	250.2	8.7
20°-30°	382.1	13.2
30°-40°	467.1	16.2
40°-50°	500.0	17.3
50°-60°	479.6	16.6
60°-70°	405.0	14.0
70°-80°	258.8	9.0
80°-90°	61.2	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°	719.2	24.9
0°-40°	1186.3	41.0
0°-60°	2166.0	74.9
0°-90°	2891.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2891.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	916	916	916	916	916	
5°	918	912	915	914	912	87
15°	884	881	887	889	889	250
25°	821	820	832	835	837	378
35°	729	734	748	758	766	456
45°	612	622	643	673	693	472
55°	472	488	535	584	606	422
65°	310	340	416	474	501	306
75°	141	201	285	290	280	152
85°	30	50	51	50	47	36
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	916.5	916.5	916.5	916.5	916.5
2.5°	920.7	915.0	916.5	916.5	913.6
5°	917.9	912.2	915.0	913.6	912.2
7.5°	912.2	907.9	910.8	910.8	909.4
10°	905.1	900.8	903.7	905.1	905.1
12.5°	895.1	892.3	896.5	896.5	898.0
15°	883.7	880.9	886.6	889.4	889.4
17.5°	870.9	869.5	876.6	878.0	879.5
20°	856.7	855.3	863.8	863.8	866.7
22.5°	839.6	838.2	849.6	849.6	852.4
25°	821.1	819.7	832.5	835.4	836.8
27.5°	801.2	799.8	812.6	816.9	819.7
30°	778.4	778.4	792.7	798.4	802.6
32.5°	752.8	757.1	769.9	778.4	784.1
35°	728.6	734.3	748.5	758.5	765.6
37.5°	701.6	707.3	722.9	735.7	744.3
40°	673.1	680.2	698.7	713.0	725.8
42.5°	644.7	651.8	671.7	693.0	710.1
45°	611.9	621.9	643.2	673.1	693.0
47.5°	579.2	589.2	616.2	653.2	673.1
50°	545.0	556.4	589.2	631.9	653.2
52.5°	509.5	522.3	563.5	609.1	630.4
55°	472.5	488.1	535.1	583.5	606.2
57.5°	434.0	451.1	506.6	557.9	582.0
60°	394.2	415.5	476.7	530.8	556.4
62.5°	352.9	378.5	446.9	502.4	529.4
65°	310.2	340.1	415.5	473.9	500.9
67.5°	266.1	306.0	384.2	445.4	472.5
70°	222.0	269.0	351.5	414.1	441.2
72.5°	180.7	234.8	318.8	377.1	382.8
75°	140.9	200.7	284.6	290.3	280.3
77.5°	105.3	166.5	234.8	209.2	207.8
80°	75.4	133.8	150.8	155.1	156.5
82.5°	49.8	101.0	98.2	101.0	99.6
85°	29.9	49.8	51.2	49.8	47.0
87.5°	14.2	18.5	14.2	12.8	11.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)