

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: P263778

Luminaire Tested: **24CZ-LD5-30-RDP-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P263778  
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-LD5-30-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: 1739.0 lumens  
Efficiency: N/A  
Efficacy: 89.5 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

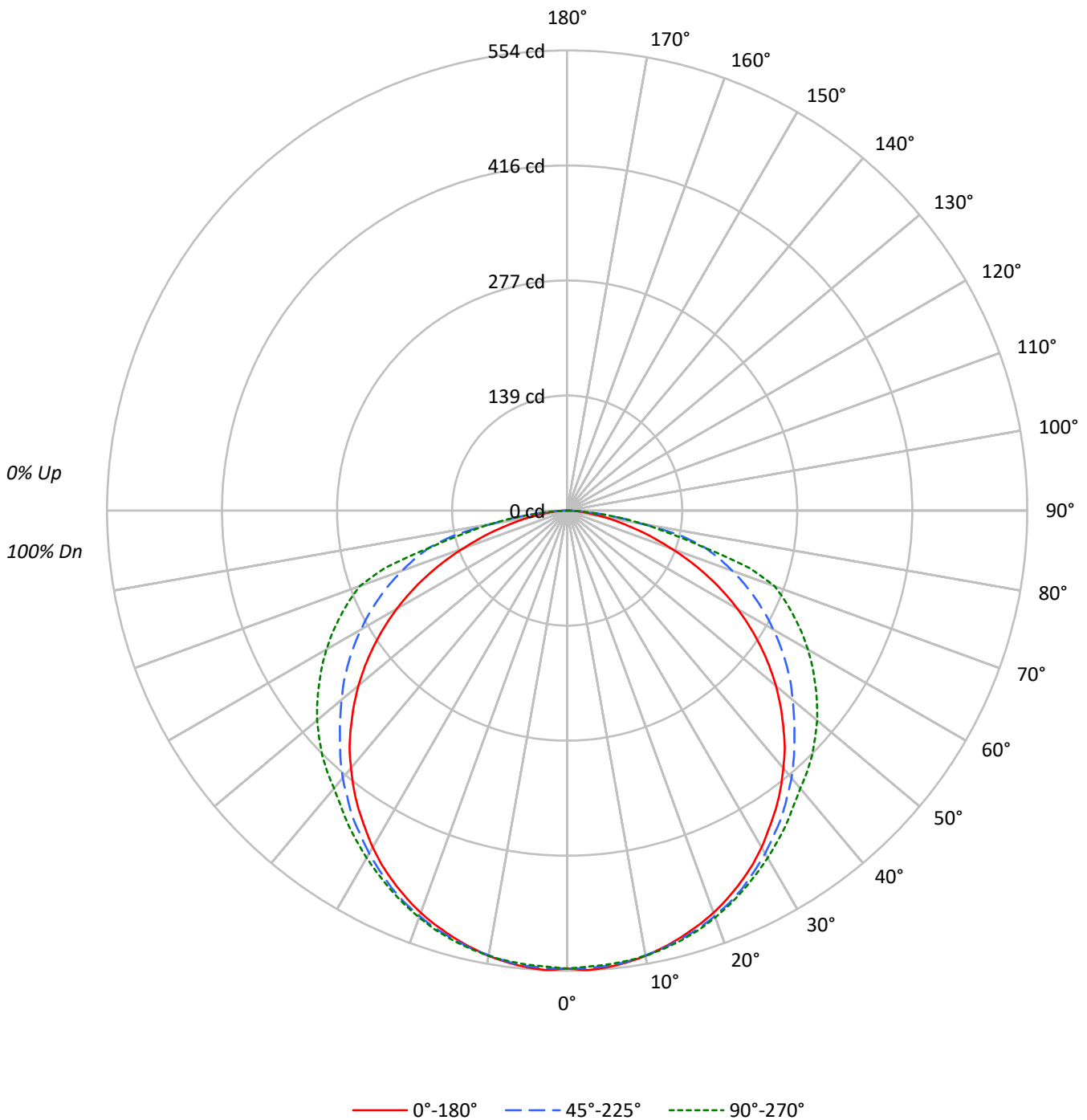
Input Watts (W): 19.437  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	742	742	742
5°	746	743	741
10°	744	743	744
15°	740	743	745
20°	738	744	746
25°	733	743	747
30°	727	741	750
35°	720	740	756
40°	711	738	767
45°	700	736	793
50°	686	742	822
55°	667	755	856
60°	638	772	901
65°	594	796	959
70°	525	832	1044
75°	440	890	876
80°	352	703	730
85°	278	475	435



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	52.3	3.0
10°-20°	150.5	8.7
20°-30°	229.8	13.2
30°-40°	281.0	16.2
40°-50°	300.8	17.3
50°-60°	288.5	16.6
60°-70°	243.6	14.0
70°-80°	155.7	9.0
80°-90°	36.8	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°	432.6	24.9
0°-40°	713.6	41.0
0°-60°	1302.9	74.9
0°-90°	1739.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1739.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	551	551	551	551	551	
5°	552	549	550	550	549	52
15°	532	530	533	535	535	150
25°	494	493	501	502	503	228
35°	438	442	450	456	460	274
45°	368	374	387	405	417	284
55°	284	294	322	351	365	254
65°	187	205	250	285	301	184
75°	85	121	171	175	169	91
85°	18	30	31	30	28	22
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	551.3	551.3	551.3	551.3	551.3
2.5°	553.8	550.4	551.3	551.3	549.6
5°	552.1	548.7	550.4	549.6	548.7
7.5°	548.7	546.1	547.9	547.9	547.0
10°	544.4	541.9	543.6	544.4	544.4
12.5°	538.4	536.7	539.3	539.3	540.1
15°	531.6	529.9	533.3	535.0	535.0
17.5°	523.9	523.0	527.3	528.2	529.0
20°	515.3	514.5	519.6	519.6	521.3
22.5°	505.1	504.2	511.0	511.0	512.8
25°	493.9	493.1	500.8	502.5	503.3
27.5°	481.9	481.1	488.8	491.4	493.1
30°	468.2	468.2	476.8	480.2	482.8
32.5°	452.8	455.4	463.1	468.2	471.7
35°	438.3	441.7	450.3	456.3	460.5
37.5°	422.0	425.4	434.9	442.6	447.7
40°	404.9	409.2	420.3	428.9	436.6
42.5°	387.8	392.1	404.0	416.9	427.2
45°	368.1	374.1	386.9	404.9	416.9
47.5°	348.4	354.4	370.7	392.9	404.9
50°	327.9	334.7	354.4	380.1	392.9
52.5°	306.5	314.2	339.0	366.4	379.2
55°	284.2	293.6	321.9	351.0	364.7
57.5°	261.1	271.4	304.7	335.6	350.1
60°	237.1	250.0	286.8	319.3	334.7
62.5°	212.3	227.7	268.8	302.2	318.4
65°	186.6	204.6	250.0	285.1	301.3
67.5°	160.1	184.0	231.1	267.9	284.2
70°	133.5	161.8	211.4	249.1	265.4
72.5°	108.7	141.2	191.7	226.8	230.3
75°	84.7	120.7	171.2	174.6	168.6
77.5°	63.3	100.2	141.2	125.8	125.0
80°	45.4	80.5	90.7	93.3	94.2
82.5°	30.0	60.8	59.1	60.8	59.9
85°	18.0	30.0	30.8	30.0	28.2
87.5°	8.6	11.1	8.6	7.7	6.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)