

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: P276976

Luminaire Tested: **24CZ2-30-RDP-UNV-L82765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276976
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1808-918-19)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ2-30-RDP-UNV-L82765-W2A1-U-4500K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1960.3 lumens
Efficiency: N/A
Efficacy: 88.6 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

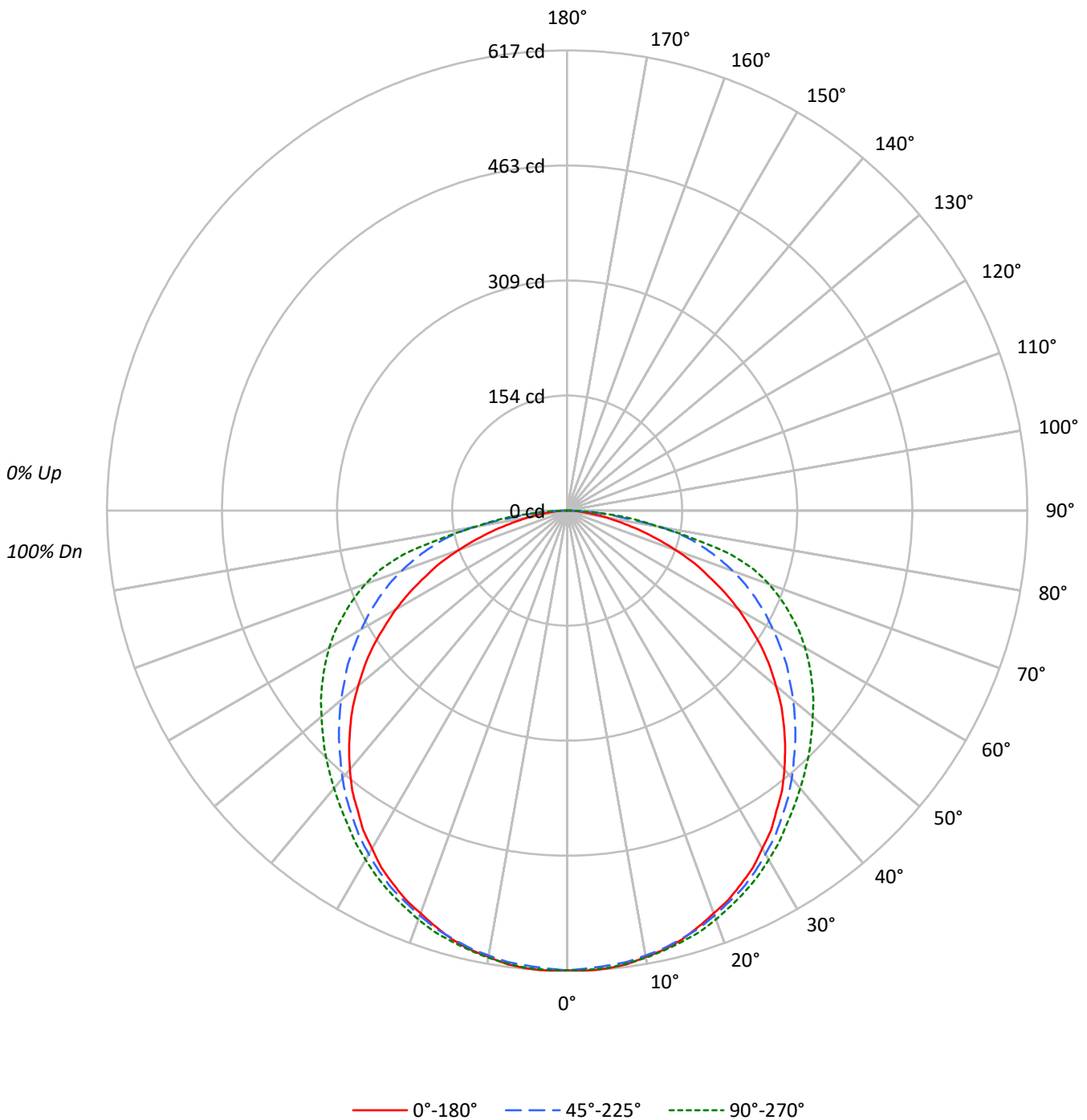
Input Watts (W): 22.134
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100	96	92	96	93	89	92	89	87	88	86	84	82
2	97	89	81	75	95	87	80	74	83	77	72	80	75	71	77	73	69	67
3	88	77	68	62	86	76	67	61	72	66	60	70	64	59	67	62	58	56
4	81	68	59	52	78	67	58	51	64	57	51	62	55	50	59	54	49	47
5	74	60	51	44	72	59	51	44	57	49	43	55	48	43	53	47	42	40
6	68	54	45	38	66	53	45	38	51	44	38	50	43	37	48	42	37	35
7	63	49	40	34	61	48	40	34	47	39	33	45	38	33	44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30	41	34	29	40	34	29	27
9	55	41	33	27	53	40	32	27	39	32	27	38	31	26	37	31	26	24
10	51	38	30	24	50	37	29	24	36	29	24	35	29	24	34	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	829	829	829
5°	833	827	831
10°	830	828	832
15°	829	828	833
20°	823	827	835
25°	820	829	837
30°	813	826	840
35°	805	824	843
40°	796	823	854
45°	783	823	873
50°	765	828	900
55°	746	842	940
60°	714	858	992
65°	669	889	1053
70°	608	930	1132
75°	516	980	1183
80°	407	987	957
85°	299	750	840



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.5	3.0
10°-20°	168.3	8.6
20°-30°	257.4	13.1
30°-40°	314.6	16.0
40°-50°	335.3	17.1
50°-60°	320.6	16.4
60°-70°	271.6	13.9
70°-80°	182.5	9.3
80°-90°	51.5	2.6
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°	484.1	24.7
0°-40°	798.7	40.7
0°-60°	1454.7	74.2
0°-90°	1960.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1960.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	616	616	616	616	616	
5°	616	616	613	616	616	59
15°	595	595	594	599	598	168
25°	552	554	558	563	564	255
35°	490	494	502	511	513	307
45°	411	418	433	451	459	317
55°	318	330	359	387	401	283
65°	210	231	279	316	331	208
75°	99	135	189	221	228	106
85°	19	40	49	52	54	24
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	616.4	616.4	616.4	616.4	616.4
2.5°	617.4	617.4	614.5	616.4	616.4
5°	616.4	615.5	612.6	615.5	615.5
7.5°	613.5	612.6	610.6	613.5	612.6
10°	607.7	607.7	605.8	608.7	608.7
12.5°	602.8	601.9	600.9	604.8	603.8
15°	595.1	595.1	594.1	598.9	598.0
17.5°	585.3	586.3	587.3	591.2	592.1
20°	574.6	576.6	577.6	583.4	583.4
22.5°	564.9	565.9	567.8	573.7	573.7
25°	552.3	554.2	558.1	563.0	563.9
27.5°	539.6	540.6	545.5	552.3	553.2
30°	523.1	526.0	531.9	539.6	540.6
32.5°	508.5	511.4	518.2	526.0	528.0
35°	490.0	493.9	501.7	511.4	513.4
37.5°	473.5	476.4	486.2	496.9	499.8
40°	453.1	458.9	468.7	481.3	486.2
42.5°	432.7	438.5	450.2	466.7	472.5
45°	411.3	418.1	432.7	451.2	458.9
47.5°	389.9	397.7	414.2	435.6	444.3
50°	365.6	375.3	395.7	420.0	429.8
52.5°	342.3	353.9	376.3	403.5	416.2
55°	317.9	329.6	358.8	387.0	400.6
57.5°	290.7	306.3	338.4	370.5	385.0
60°	265.4	280.0	318.9	353.9	368.5
62.5°	238.2	257.7	299.5	336.4	351.0
65°	210.0	231.4	279.1	316.0	330.6
67.5°	184.7	208.1	258.6	295.6	310.2
70°	154.6	183.8	236.3	273.2	287.8
72.5°	126.4	158.5	212.9	248.9	262.5
75°	99.2	135.2	188.6	220.7	227.5
77.5°	73.9	111.8	163.3	177.0	172.1
80°	52.5	89.5	127.4	120.6	123.5
82.5°	34.0	68.1	78.8	89.5	92.4
85°	19.4	39.9	48.6	52.5	54.4
87.5°	8.8	14.6	19.4	19.4	18.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)