

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: P277109

Luminaire Tested: **24CZ2-30-RDP-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277109
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-L92765-W2A1-U-3500K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1651.0 lumens
Efficiency: N/A
Efficacy: 75.5 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

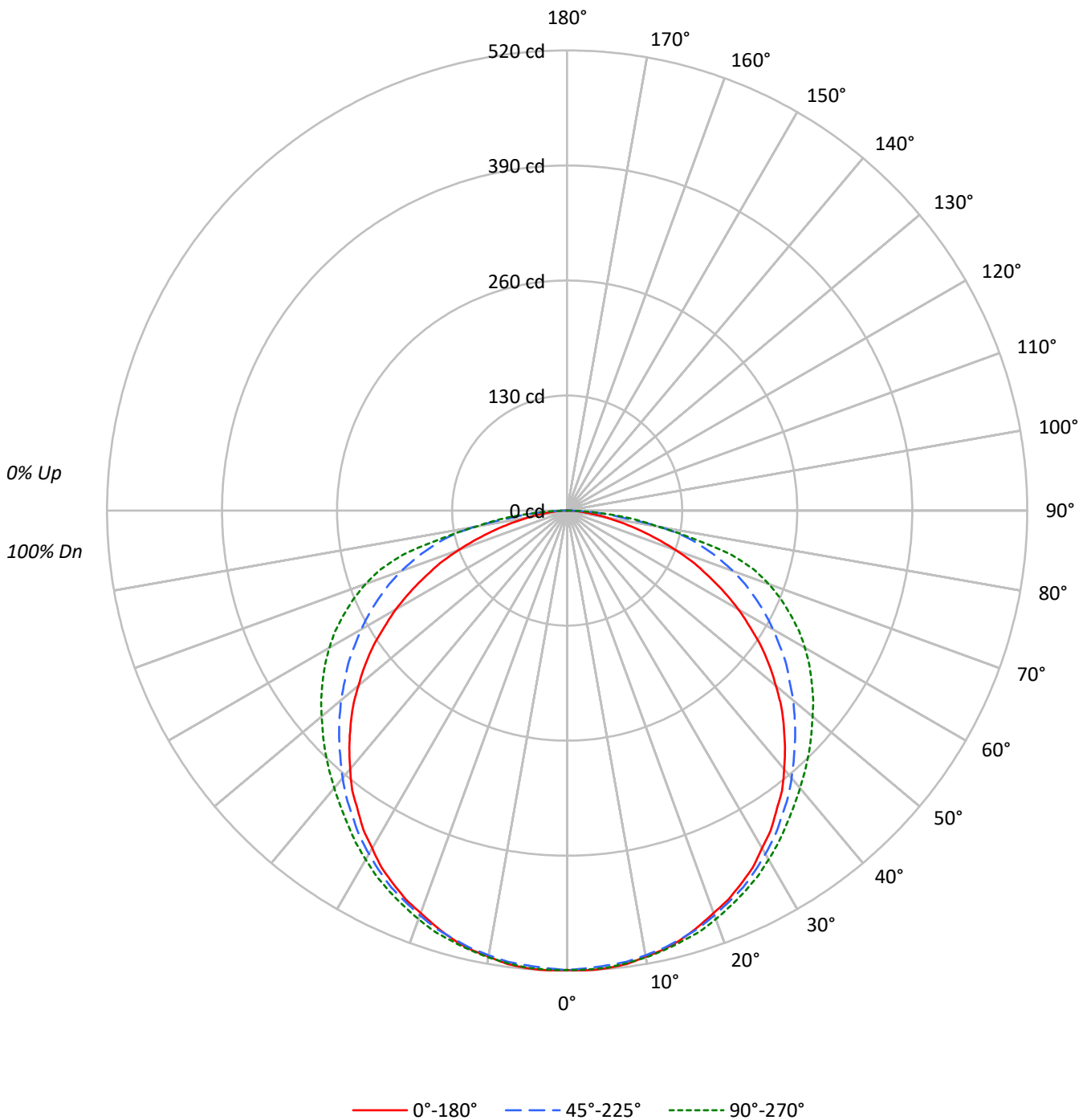
Input Watts (W): 21.855
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	68	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°	699	699	699
5°	701	697	700
10°	699	697	700
15°	698	697	701
20°	693	697	704
25°	691	698	705
30°	685	696	707
35°	678	694	710
40°	670	693	719
45°	659	693	735
50°	644	698	758
55°	628	709	791
60°	602	723	835
65°	563	748	886
70°	512	783	954
75°	434	826	996
80°	342	831	806
85°	253	631	709



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.3	3.0
10°-20°	141.7	8.6
20°-30°	216.8	13.1
30°-40°	265.0	16.0
40°-50°	282.4	17.1
50°-60°	270.0	16.4
60°-70°	228.8	13.9
70°-80°	153.7	9.3
80°-90°	43.4	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°	407.8	24.7
0°-40°	672.7	40.7
0°-60°	1225.2	74.2
0°-90°	1651.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1651.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	519	519	519	519	519	
5°	519	518	516	518	518	49
15°	501	501	500	504	504	141
25°	465	467	470	474	475	214
35°	413	416	423	431	432	259
45°	346	352	364	380	386	267
55°	268	278	302	326	337	239
65°	177	195	235	266	278	176
75°	84	114	159	186	192	89
85°	16	34	41	44	46	20
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	519.2	519.2	519.2	519.2	519.2
2.5°	520.0	520.0	517.6	519.2	519.2
5°	519.2	518.4	515.9	518.4	518.4
7.5°	516.8	515.9	514.3	516.8	515.9
10°	511.8	511.8	510.2	512.7	512.7
12.5°	507.7	506.9	506.1	509.4	508.6
15°	501.2	501.2	500.4	504.5	503.6
17.5°	493.0	493.8	494.6	497.9	498.7
20°	484.0	485.6	486.5	491.4	491.4
22.5°	475.8	476.6	478.3	483.2	483.2
25°	465.2	466.8	470.1	474.2	475.0
27.5°	454.5	455.3	459.4	465.2	466.0
30°	440.6	443.0	448.0	454.5	455.3
32.5°	428.3	430.8	436.5	443.0	444.7
35°	412.7	416.0	422.6	430.8	432.4
37.5°	398.8	401.3	409.5	418.5	420.9
40°	381.6	386.5	394.7	405.4	409.5
42.5°	364.4	369.3	379.2	393.1	398.0
45°	346.4	352.1	364.4	380.0	386.5
47.5°	328.4	334.9	348.9	366.9	374.3
50°	307.9	316.1	333.3	353.8	362.0
52.5°	288.3	298.1	316.9	339.9	350.5
55°	267.8	277.6	302.2	325.9	337.4
57.5°	244.9	258.0	285.0	312.0	324.3
60°	223.6	235.9	268.6	298.1	310.4
62.5°	200.6	217.0	252.2	283.4	295.6
65°	176.9	194.9	235.0	266.2	278.4
67.5°	155.6	175.3	217.8	249.0	261.2
70°	130.2	154.8	199.0	230.1	242.4
72.5°	106.5	133.5	179.3	209.6	221.1
75°	83.5	113.8	158.9	185.9	191.6
77.5°	62.2	94.2	137.6	149.0	145.0
80°	44.2	75.3	107.3	101.5	104.0
82.5°	28.7	57.3	66.3	75.3	77.8
85°	16.4	33.6	40.9	44.2	45.9
87.5°	7.4	12.3	16.4	16.4	15.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)