

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: P277120

Luminaire Tested: **24CZ2-35-RDP-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277120
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: 24CZ2-35-RDP-UNV-L92765-W2A1-U-4500K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2050.6 lumens
Efficiency: N/A
Efficacy: 77.4 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

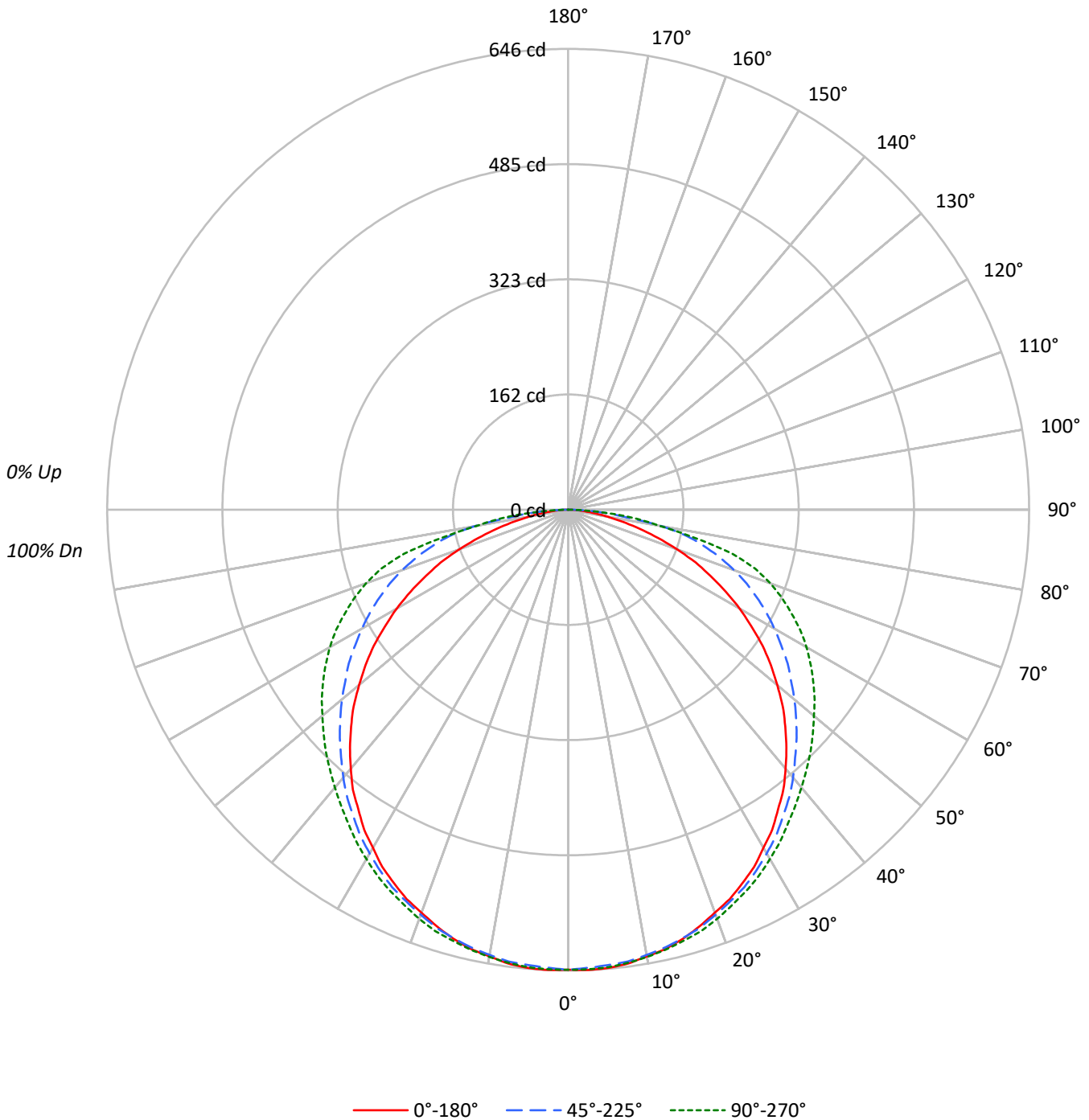
Input Watts (W): 26.505
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	868	868	868
5°	871	865	870
10°	869	866	870
15°	867	866	871
20°	861	865	874
25°	858	867	876
30°	850	864	879
35°	842	862	882
40°	833	861	893
45°	819	861	914
50°	800	867	941
55°	780	880	983
60°	747	898	1037
65°	699	929	1101
70°	636	972	1185
75°	539	1026	1237
80°	425	1032	1001
85°	313	786	880



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.2	3.0
10°-20°	176.1	8.6
20°-30°	269.2	13.1
30°-40°	329.1	16.0
40°-50°	350.8	17.1
50°-60°	335.4	16.4
60°-70°	284.1	13.9
70°-80°	190.9	9.3
80°-90°	53.9	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°	506.4	24.7
0°-40°	835.6	40.7
0°-60°	1521.7	74.2
0°-90°	2050.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2050.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	645	645	645	645	645	
5°	645	644	641	644	644	61
15°	622	622	622	627	626	176
25°	578	580	584	589	590	266
35°	513	517	525	535	537	321
45°	430	437	453	472	480	332
55°	333	345	375	405	419	296
65°	220	242	292	331	346	218
75°	104	141	197	231	238	111
85°	20	42	51	55	57	25
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	644.9	644.9	644.9	644.9	644.9
2.5°	645.9	645.9	642.8	644.9	644.9
5°	644.9	643.8	640.8	643.8	643.8
7.5°	641.8	640.8	638.8	641.8	640.8
10°	635.7	635.7	633.7	636.7	636.7
12.5°	630.6	629.6	628.6	632.7	631.6
15°	622.5	622.5	621.5	626.6	625.5
17.5°	612.3	613.3	614.3	618.4	619.4
20°	601.1	603.2	604.2	610.3	610.3
22.5°	591.0	592.0	594.0	600.1	600.1
25°	577.7	579.8	583.8	588.9	589.9
27.5°	564.5	565.5	570.6	577.7	578.7
30°	547.2	550.3	556.4	564.5	565.5
32.5°	532.0	535.0	542.1	550.3	552.3
35°	512.6	516.7	524.8	535.0	537.0
37.5°	495.3	498.4	508.6	519.8	522.8
40°	474.0	480.1	490.3	503.5	508.6
42.5°	452.6	458.7	470.9	488.2	494.3
45°	430.2	437.4	452.6	471.9	480.1
47.5°	407.9	416.0	433.3	455.7	464.8
50°	382.4	392.6	414.0	439.4	449.6
52.5°	358.0	370.2	393.6	422.1	435.3
55°	332.6	344.8	375.3	404.8	419.1
57.5°	304.1	320.4	354.0	387.5	402.8
60°	277.7	292.9	333.6	370.2	385.5
62.5°	249.2	269.5	313.3	351.9	367.2
65°	219.7	242.1	291.9	330.6	345.8
67.5°	193.3	217.7	270.6	309.2	324.5
70°	161.7	192.2	247.2	285.8	301.1
72.5°	132.2	165.8	222.8	260.4	274.6
75°	103.7	141.4	197.3	230.9	238.0
77.5°	77.3	117.0	170.9	185.1	180.0
80°	54.9	93.6	133.2	126.1	129.2
82.5°	35.6	71.2	82.4	93.6	96.6
85°	20.3	41.7	50.9	54.9	57.0
87.5°	9.2	15.3	20.3	20.3	19.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)