

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: P277029

Luminaire Tested: **24CZ2-35HE-RDP-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277029
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: 24CZ2-35HE-RDP-UNV-L92765-W2A1-U-4000K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (336) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1977.4 lumens
Efficiency: N/A
Efficacy: 80.8 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

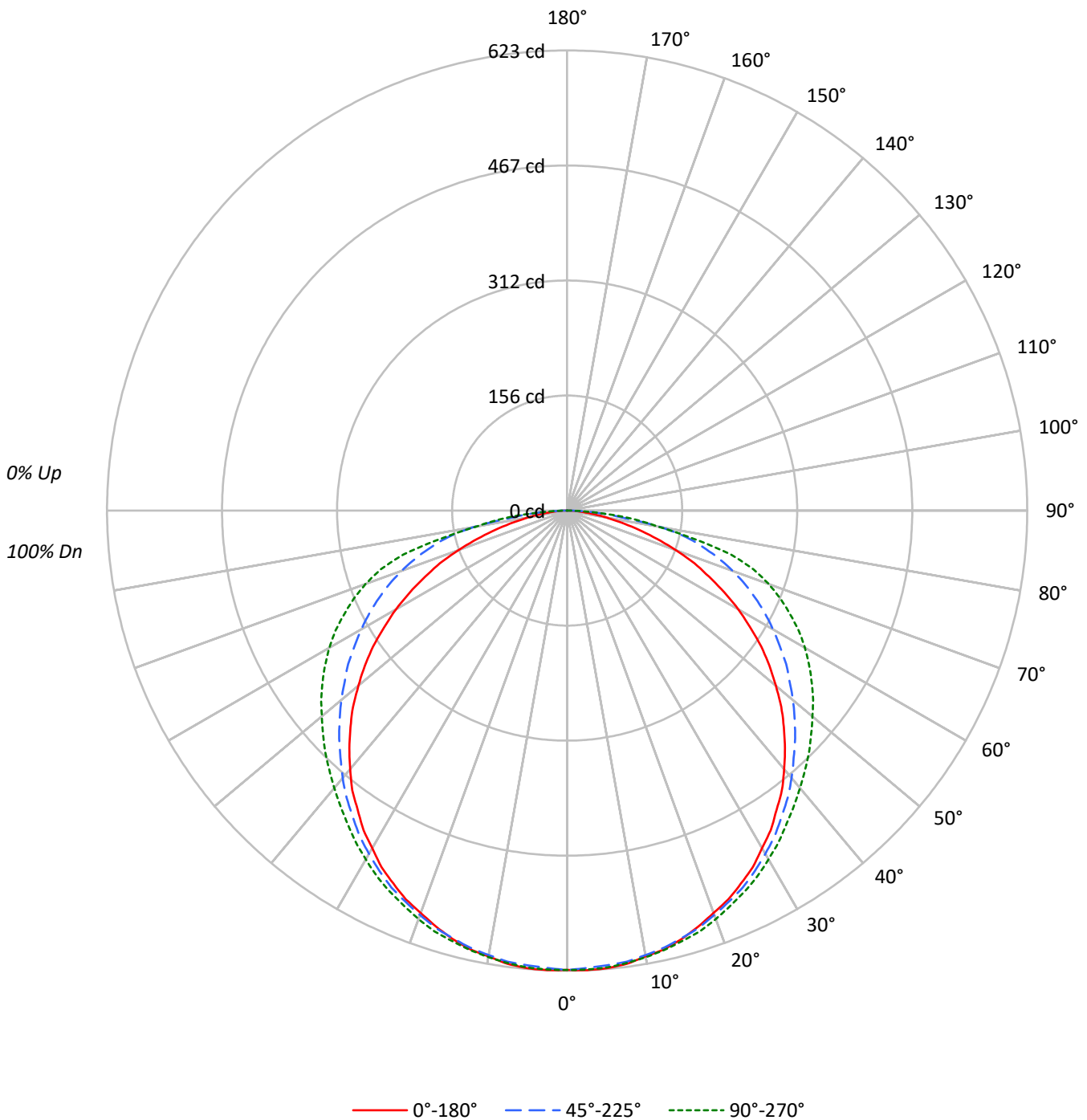
Input Watts (W): 24.459
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	837	837	837
5°	840	835	839
10°	838	835	839
15°	836	835	840
20°	830	834	843
25°	827	836	845
30°	820	834	847
35°	812	831	851
40°	803	830	861
45°	789	831	881
50°	772	836	907
55°	752	849	948
60°	721	866	1000
65°	675	896	1062
70°	614	937	1142
75°	520	989	1193
80°	411	996	965
85°	303	756	848



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.0	3.0
10°-20°	169.8	8.6
20°-30°	259.6	13.1
30°-40°	317.4	16.0
40°-50°	338.3	17.1
50°-60°	323.4	16.4
60°-70°	274.0	13.9
70°-80°	184.1	9.3
80°-90°	51.9	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°	488.4	24.7
0°-40°	805.7	40.7
0°-60°	1467.4	74.2
0°-90°	1977.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1977.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	622	622	622	622	622	
5°	622	621	618	621	621	59
15°	600	600	599	604	603	169
25°	557	559	563	568	569	257
35°	494	498	506	516	518	310
45°	415	422	436	455	463	320
55°	321	332	362	390	404	286
65°	212	233	282	319	334	210
75°	100	136	190	223	230	107
85°	20	40	49	53	55	24
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	621.9	621.9	621.9	621.9	621.9
2.5°	622.8	622.8	619.9	621.9	621.9
5°	621.9	620.9	617.9	620.9	620.9
7.5°	618.9	617.9	616.0	618.9	617.9
10°	613.0	613.0	611.1	614.0	614.0
12.5°	608.1	607.1	606.2	610.1	609.1
15°	600.3	600.3	599.3	604.2	603.2
17.5°	590.5	591.4	592.4	596.3	597.3
20°	579.7	581.6	582.6	588.5	588.5
22.5°	569.9	570.8	572.8	578.7	578.7
25°	557.1	559.1	563.0	567.9	568.9
27.5°	544.4	545.3	550.2	557.1	558.1
30°	527.7	530.6	536.5	544.4	545.3
32.5°	513.0	515.9	522.8	530.6	532.6
35°	494.3	498.3	506.1	515.9	517.9
37.5°	477.7	480.6	490.4	501.2	504.2
40°	457.1	463.0	472.8	485.5	490.4
42.5°	436.5	442.4	454.1	470.8	476.7
45°	414.9	421.8	436.5	455.1	463.0
47.5°	393.3	401.2	417.8	439.4	448.2
50°	368.8	378.6	399.2	423.7	433.5
52.5°	345.3	357.0	379.6	407.0	419.8
55°	320.7	332.5	361.9	390.4	404.1
57.5°	293.3	309.0	341.3	373.7	388.4
60°	267.8	282.5	321.7	357.0	371.7
62.5°	240.3	259.9	302.1	339.4	354.1
65°	211.9	233.4	281.5	318.8	333.5
67.5°	186.4	209.9	260.9	298.2	312.9
70°	156.0	185.4	238.3	275.6	290.3
72.5°	127.5	159.9	214.8	251.1	264.8
75°	100.0	136.3	190.3	222.7	229.5
77.5°	74.5	112.8	164.8	178.5	173.6
80°	53.0	90.2	128.5	121.6	124.6
82.5°	34.3	68.7	79.4	90.2	93.2
85°	19.6	40.2	49.0	53.0	54.9
87.5°	8.8	14.7	19.6	19.6	18.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)