

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: P277044

Luminaire Tested: **24CZ2-45HE-RDP-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277044
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: 24CZ2-45HE-RDP-UNV-L92765-W2A1-U-2700K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (336) 90 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2236.4 lumens
Efficiency: N/A
Efficacy: 71.4 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

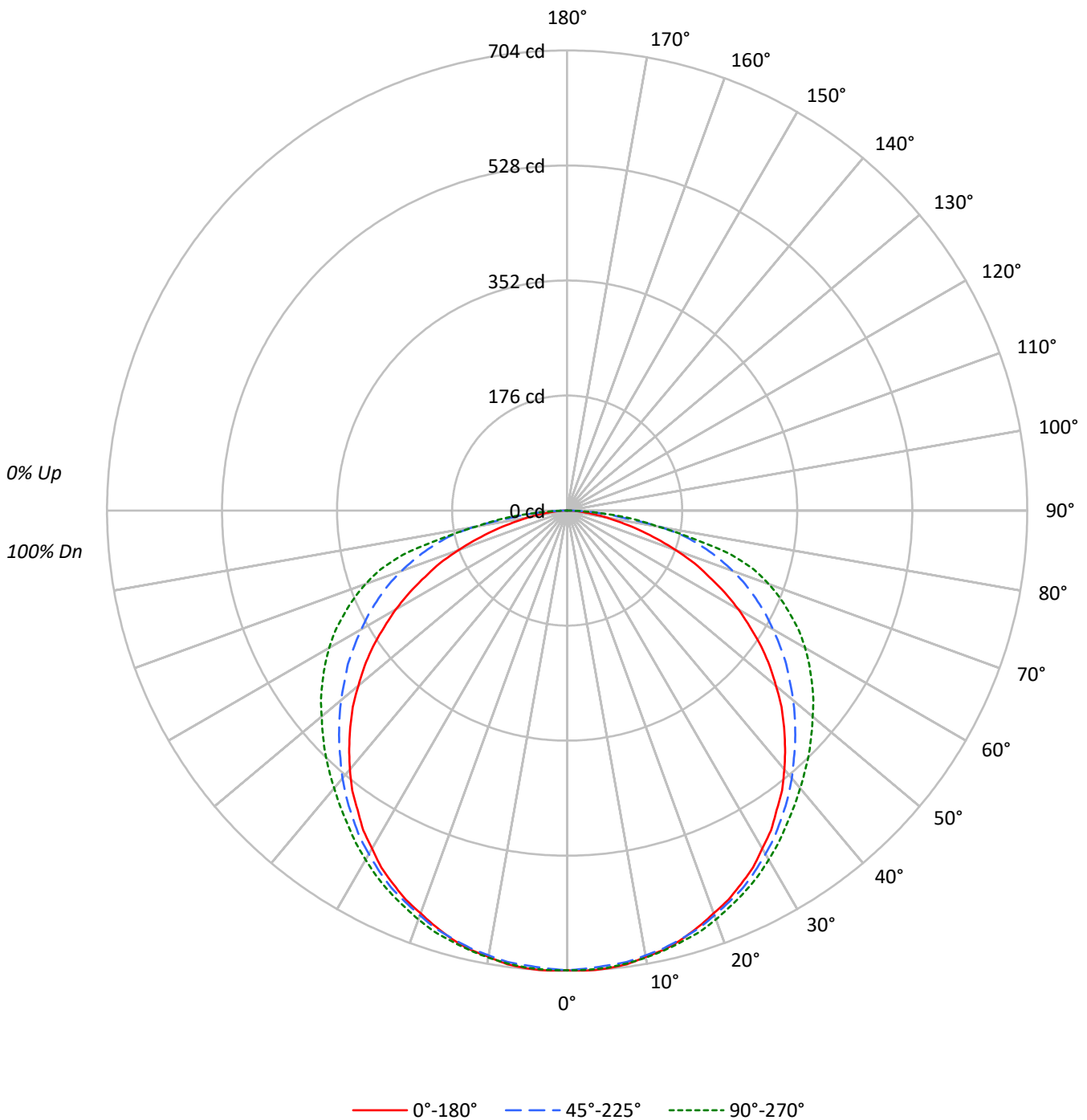
Input Watts (W): 31.341
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	946	946	946
5°	950	944	948
10°	947	944	949
15°	946	944	950
20°	939	943	953
25°	935	945	955
30°	927	943	958
35°	918	940	962
40°	908	939	974
45°	893	939	996
50°	873	945	1026
55°	851	960	1072
60°	815	979	1131
65°	763	1014	1201
70°	694	1061	1292
75°	588	1119	1350
80°	464	1126	1092
85°	343	857	959



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.7	3.0
10°-20°	192.0	8.6
20°-30°	293.6	13.1
30°-40°	358.9	16.0
40°-50°	382.6	17.1
50°-60°	365.8	16.4
60°-70°	309.9	13.9
70°-80°	208.3	9.3
80°-90°	58.8	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°	552.3	24.7
0°-40°	911.3	40.7
0°-60°	1659.6	74.2
0°-90°	2236.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2236.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	703	703	703	703	703	
5°	703	702	699	702	702	67
15°	679	679	678	683	682	191
25°	630	632	637	642	643	290
35°	559	564	572	584	586	350
45°	469	477	494	515	524	362
55°	363	376	409	442	457	323
65°	240	264	318	360	377	238
75°	113	154	215	252	260	121
85°	22	46	56	60	62	27
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	703.3	703.3	703.3	703.3	703.3
2.5°	704.4	704.4	701.1	703.3	703.3
5°	703.3	702.2	698.8	702.2	702.2
7.5°	700.0	698.8	696.6	700.0	698.8
10°	693.3	693.3	691.1	694.4	694.4
12.5°	687.8	686.6	685.5	690.0	688.9
15°	678.9	678.9	677.8	683.3	682.2
17.5°	667.8	668.9	670.0	674.4	675.6
20°	655.6	657.8	658.9	665.6	665.6
22.5°	644.5	645.6	647.8	654.5	654.5
25°	630.1	632.3	636.7	642.3	643.4
27.5°	615.7	616.8	622.3	630.1	631.2
30°	596.8	600.1	606.8	615.7	616.8
32.5°	580.2	583.5	591.2	600.1	602.3
35°	559.1	563.5	572.4	583.5	585.7
37.5°	540.2	543.5	554.6	566.8	570.2
40°	516.9	523.6	534.7	549.1	554.6
42.5°	493.6	500.3	513.6	532.5	539.1
45°	469.2	477.0	493.6	514.7	523.6
47.5°	444.8	453.7	472.6	497.0	506.9
50°	417.1	428.2	451.5	479.2	490.3
52.5°	390.5	403.8	429.3	460.4	474.8
55°	362.7	376.0	409.3	441.5	457.0
57.5°	331.7	349.4	386.0	422.6	439.3
60°	302.8	319.5	363.8	403.8	420.4
62.5°	271.8	294.0	341.7	383.8	400.5
65°	239.6	264.0	318.4	360.5	377.2
67.5°	210.8	237.4	295.1	337.2	353.9
70°	176.4	209.7	269.6	311.7	328.3
72.5°	144.2	180.8	242.9	284.0	299.5
75°	113.1	154.2	215.2	251.8	259.6
77.5°	84.3	127.6	186.4	201.9	196.3
80°	59.9	102.1	145.3	137.6	140.9
82.5°	38.8	77.6	89.9	102.1	105.4
85°	22.2	45.5	55.5	59.9	62.1
87.5°	10.0	16.6	22.2	22.2	21.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)