

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: P277046

Luminaire Tested: **24CZ2-45HE-RDP-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277046
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-3500K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (336) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2441.3 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

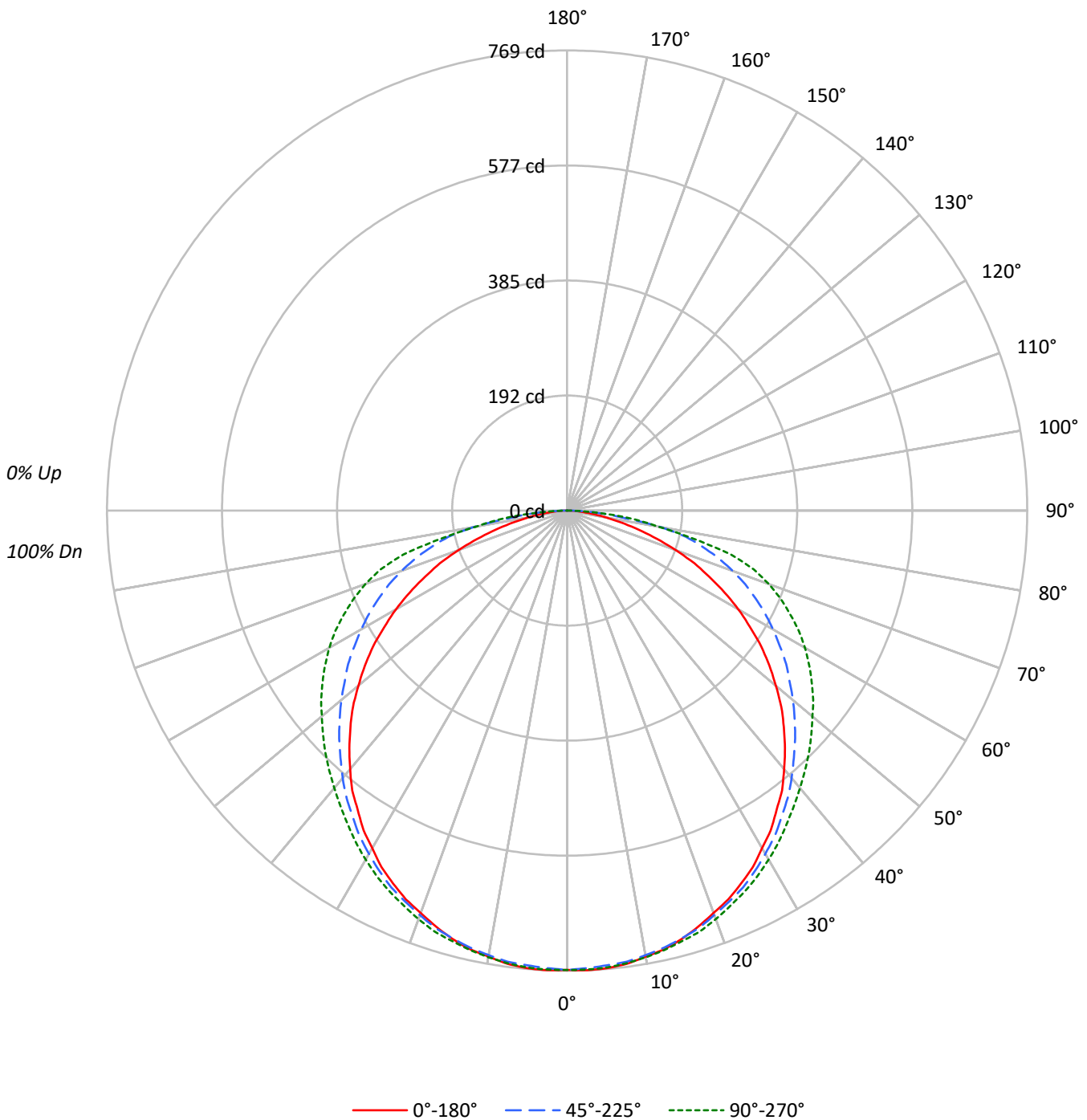
Input Watts (W): 31.527
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1033	1033	1033
5°	1037	1030	1035
10°	1034	1031	1036
15°	1032	1031	1037
20°	1025	1030	1040
25°	1021	1032	1043
30°	1012	1029	1046
35°	1002	1026	1050
40°	991	1025	1063
45°	975	1025	1087
50°	953	1032	1120
55°	929	1048	1170
60°	890	1069	1235
65°	833	1106	1311
70°	757	1157	1410
75°	642	1221	1473
80°	507	1229	1192
85°	374	934	1047



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.8	3.0
10°-20°	209.6	8.6
20°-30°	320.5	13.1
30°-40°	391.8	16.0
40°-50°	417.6	17.1
50°-60°	399.3	16.4
60°-70°	338.2	13.9
70°-80°	227.3	9.3
80°-90°	64.1	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°	602.9	24.7
0°-40°	994.7	40.7
0°-60°	1811.6	74.2
0°-90°	2441.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2441.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	768	768	768	768	768	
5°	768	766	763	766	766	73
15°	741	741	740	746	745	209
25°	688	690	695	701	702	317
35°	610	615	625	637	639	382
45°	512	521	539	562	572	395
55°	396	410	447	482	499	353
65°	262	288	348	394	412	260
75°	124	168	235	275	283	132
85°	24	50	60	65	68	30
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	767.7	767.7	767.7	767.7	767.7
2.5°	768.9	768.9	765.3	767.7	767.7
5°	767.7	766.5	762.9	766.5	766.5
7.5°	764.1	762.9	760.4	764.1	762.9
10°	756.8	756.8	754.4	758.0	758.0
12.5°	750.8	749.5	748.3	753.2	752.0
15°	741.1	741.1	739.9	745.9	744.7
17.5°	729.0	730.2	731.4	736.2	737.4
20°	715.6	718.1	719.3	726.5	726.5
22.5°	703.5	704.7	707.2	714.4	714.4
25°	687.8	690.2	695.1	701.1	702.3
27.5°	672.0	673.3	679.3	687.8	689.0
30°	651.5	655.1	662.4	672.0	673.3
32.5°	633.3	636.9	645.4	655.1	657.5
35°	610.3	615.1	624.8	636.9	639.4
37.5°	589.7	593.3	605.4	618.8	622.4
40°	564.3	571.5	583.7	599.4	605.4
42.5°	538.8	546.1	560.6	581.2	588.5
45°	512.2	520.7	538.8	561.9	571.5
47.5°	485.6	495.3	515.8	542.5	553.4
50°	455.3	467.4	492.8	523.1	535.2
52.5°	426.2	440.8	468.6	502.5	518.3
55°	396.0	410.5	446.8	481.9	498.9
57.5°	362.1	381.4	421.4	461.4	479.5
60°	330.6	348.7	397.2	440.8	458.9
62.5°	296.7	320.9	373.0	419.0	437.1
65°	261.6	288.2	347.5	393.5	411.7
67.5°	230.1	259.1	322.1	368.1	386.3
70°	192.5	228.9	294.2	340.3	358.4
72.5°	157.4	197.4	265.2	310.0	326.9
75°	123.5	168.3	234.9	274.9	283.4
77.5°	92.0	139.3	203.4	220.4	214.3
80°	65.4	111.4	158.6	150.2	153.8
82.5°	42.4	84.8	98.1	111.4	115.0
85°	24.2	49.6	60.5	65.4	67.8
87.5°	10.9	18.2	24.2	24.2	23.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)