

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: P276917

Luminaire Tested: **24CZ2-45HE-RDP-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276917
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-L82765-W2A1-U-6500K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (336) 80 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2982.7 lumens
Efficiency: N/A
Efficacy: 90.9 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

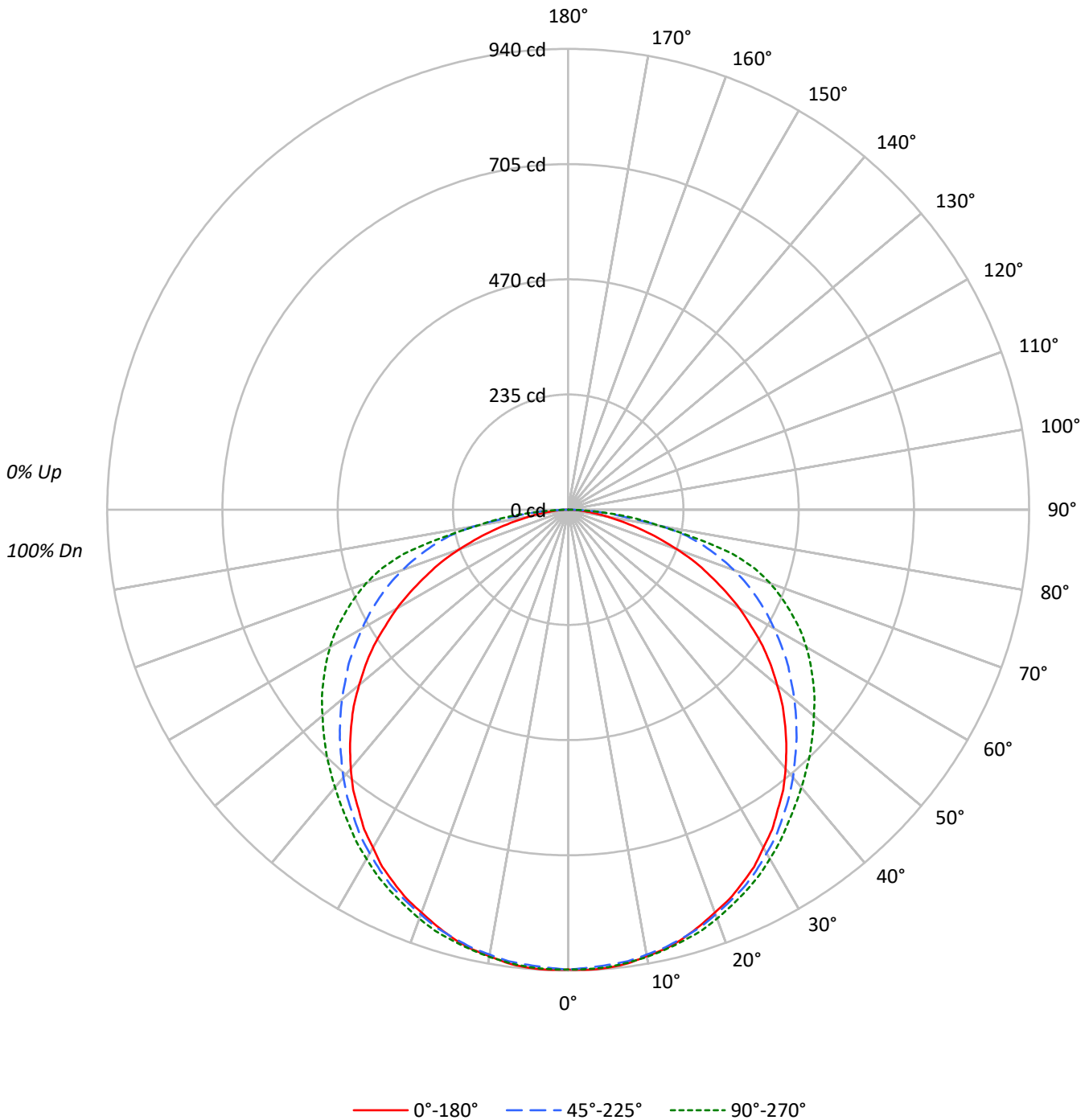
Input Watts (W): 32.829
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1262	1262	1262
5°	1267	1259	1265
10°	1263	1259	1265
15°	1261	1259	1267
20°	1252	1258	1271
25°	1247	1261	1274
30°	1237	1257	1278
35°	1225	1254	1283
40°	1211	1252	1299
45°	1191	1253	1329
50°	1164	1260	1369
55°	1135	1281	1430
60°	1087	1306	1509
65°	1018	1352	1601
70°	925	1414	1723
75°	784	1492	1800
80°	619	1502	1456
85°	457	1142	1278



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.0	3.0
10°-20°	256.1	8.6
20°-30°	391.6	13.1
30°-40°	478.7	16.0
40°-50°	510.2	17.1
50°-60°	487.8	16.4
60°-70°	413.3	13.9
70°-80°	277.7	9.3
80°-90°	78.3	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°	736.6	24.7
0°-40°	1215.3	40.7
0°-60°	2213.4	74.2
0°-90°	2982.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2982.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	938	938	938	938	938	
5°	938	936	932	936	936	89
15°	905	905	904	911	910	255
25°	840	843	849	857	858	387
35°	746	752	763	778	781	467
45°	626	636	658	686	698	483
55°	484	502	546	589	610	431
65°	320	352	425	481	503	317
75°	151	206	287	336	346	162
85°	30	61	74	80	83	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	938.0	938.0	938.0	938.0	938.0
2.5°	939.5	939.5	935.0	938.0	938.0
5°	938.0	936.5	932.1	936.5	936.5
7.5°	933.5	932.1	929.1	933.5	932.1
10°	924.7	924.7	921.7	926.1	926.1
12.5°	917.3	915.8	914.3	920.2	918.7
15°	905.4	905.4	904.0	911.3	909.9
17.5°	890.6	892.1	893.6	899.5	901.0
20°	874.4	877.3	878.8	887.7	887.7
22.5°	859.6	861.0	864.0	872.9	872.9
25°	840.3	843.3	849.2	856.6	858.1
27.5°	821.1	822.6	830.0	840.3	841.8
30°	796.0	800.4	809.3	821.1	822.6
32.5°	773.8	778.2	788.6	800.4	803.3
35°	745.6	751.6	763.4	778.2	781.2
37.5°	720.5	724.9	739.7	756.0	760.4
40°	689.4	698.3	713.1	732.3	739.7
42.5°	658.4	667.2	685.0	710.1	719.0
45°	625.8	636.2	658.4	686.5	698.3
47.5°	593.3	605.1	630.3	662.8	676.1
50°	556.3	571.1	602.1	639.1	653.9
52.5°	520.8	538.5	572.6	614.0	633.2
55°	483.8	501.5	545.9	588.8	609.5
57.5°	442.4	466.0	514.9	563.7	585.9
60°	403.9	426.1	485.3	538.5	560.7
62.5°	362.5	392.1	455.7	511.9	534.1
65°	319.6	352.1	424.6	480.8	503.0
67.5°	281.1	316.6	393.5	449.8	471.9
70°	235.2	279.6	359.5	415.7	437.9
72.5°	192.3	241.2	324.0	378.7	399.5
75°	150.9	205.6	287.0	335.8	346.2
77.5°	112.4	170.1	248.5	269.3	261.9
80°	79.9	136.1	193.8	183.5	187.9
82.5°	51.8	103.6	119.8	136.1	140.5
85°	29.6	60.7	74.0	79.9	82.8
87.5°	13.3	22.2	29.6	29.6	28.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)