

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: P276829

Luminaire Tested: **24CZ2-50HE-RDP-UNV-L93050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276829
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: 24CZ2-50HE-RDP-UNV-L93050-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: 2935.5 lumens
Efficiency: N/A
Efficacy: 80.1 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

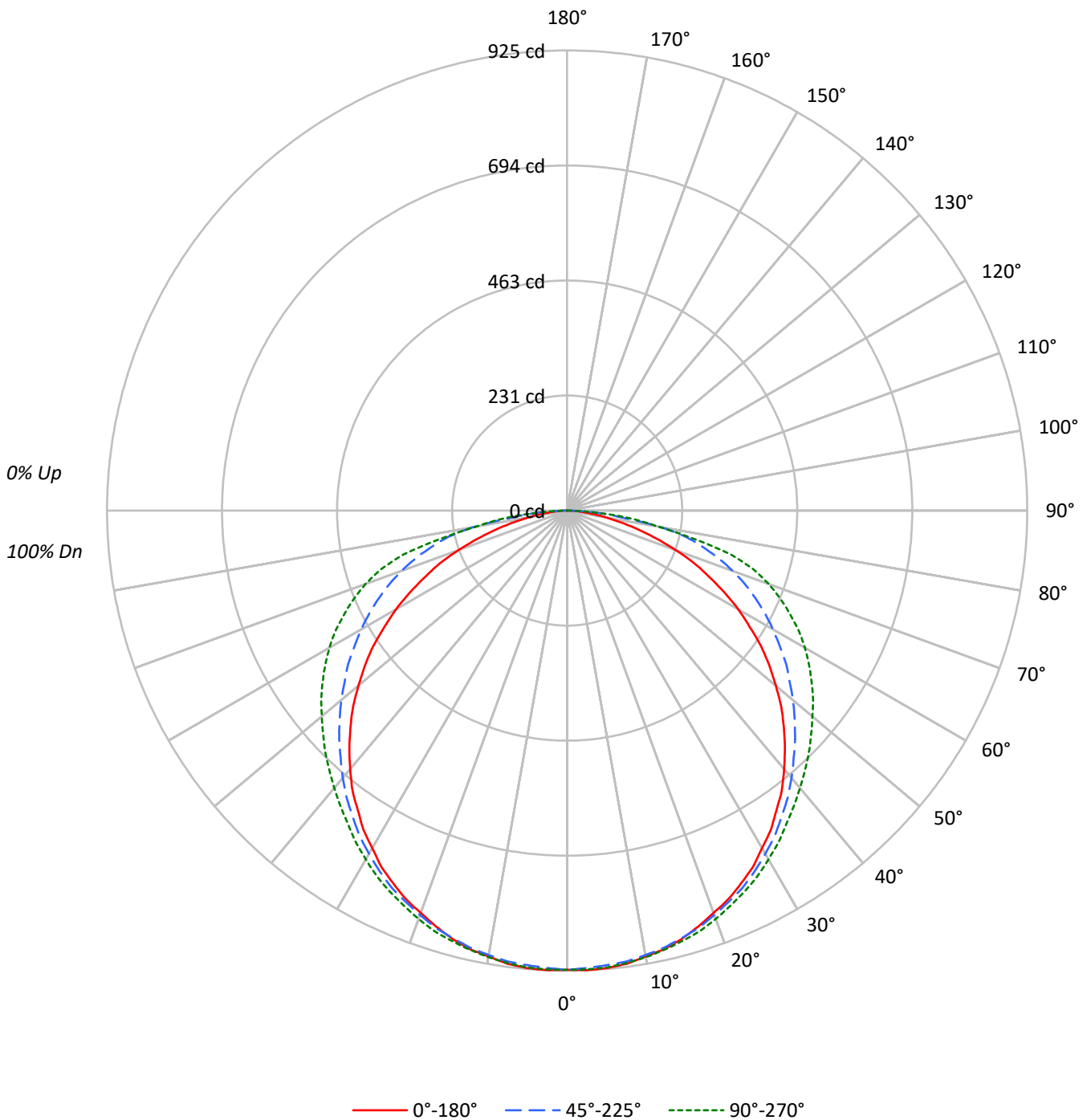
Input Watts (W): 36.640512
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1242	1242	1242
5°	1247	1239	1245
10°	1243	1239	1245
15°	1241	1239	1247
20°	1232	1238	1251
25°	1228	1241	1254
30°	1217	1237	1258
35°	1205	1234	1263
40°	1192	1233	1279
45°	1172	1233	1308
50°	1146	1240	1347
55°	1117	1260	1407
60°	1070	1285	1485
65°	1001	1330	1576
70°	911	1392	1696
75°	772	1469	1771
80°	609	1478	1433
85°	449	1124	1258



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.6	3.0
10°-20°	252.0	8.6
20°-30°	385.4	13.1
30°-40°	471.1	16.0
40°-50°	502.1	17.1
50°-60°	480.1	16.4
60°-70°	406.7	13.9
70°-80°	273.3	9.3
80°-90°	77.1	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°	725.0	24.7
0°-40°	1196.1	40.7
0°-60°	2178.4	74.2
0°-90°	2935.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2935.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	923	923	923	923	923	
5°	923	922	917	922	922	88
15°	891	891	890	897	896	251
25°	827	830	836	843	844	381
35°	734	740	751	766	769	460
45°	616	626	648	676	687	475
55°	476	494	537	580	600	424
65°	314	346	418	473	495	312
75°	148	202	282	330	341	159
85°	29	60	73	79	82	36
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	923.1	923.1	923.1	923.1	923.1
2.5°	924.6	924.6	920.2	923.1	923.1
5°	923.1	921.7	917.3	921.7	921.7
7.5°	918.8	917.3	914.4	918.8	917.3
10°	910.0	910.0	907.1	911.5	911.5
12.5°	902.8	901.3	899.8	905.7	904.2
15°	891.1	891.1	889.7	896.9	895.5
17.5°	876.6	878.0	879.5	885.3	886.7
20°	860.5	863.4	864.9	873.6	873.6
22.5°	846.0	847.4	850.3	859.1	859.1
25°	827.0	830.0	835.8	843.1	844.5
27.5°	808.1	809.6	816.9	827.0	828.5
30°	783.4	787.7	796.5	808.1	809.6
32.5°	761.5	765.9	776.1	787.7	790.6
35°	733.9	739.7	751.3	765.9	768.8
37.5°	709.1	713.5	728.0	744.1	748.4
40°	678.5	687.3	701.8	720.8	728.0
42.5°	647.9	656.7	674.2	698.9	707.6
45°	615.9	626.1	647.9	675.6	687.3
47.5°	583.9	595.5	620.3	652.3	665.4
50°	547.5	562.0	592.6	629.0	643.6
52.5°	512.5	530.0	563.5	604.3	623.2
55°	476.1	493.6	537.3	579.5	599.9
57.5°	435.4	458.7	506.7	554.8	576.6
60°	397.5	419.3	477.6	530.0	551.8
62.5°	356.7	385.9	448.5	503.8	525.6
65°	314.5	346.5	417.9	473.2	495.1
67.5°	276.7	311.6	387.3	442.6	464.5
70°	231.5	275.2	353.8	409.2	431.0
72.5°	189.3	237.3	318.9	372.8	393.1
75°	148.5	202.4	282.5	330.5	340.7
77.5°	110.7	167.4	244.6	265.0	257.7
80°	78.6	134.0	190.7	180.6	184.9
82.5°	51.0	101.9	117.9	134.0	138.3
85°	29.1	59.7	72.8	78.6	81.5
87.5°	13.1	21.8	29.1	29.1	27.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)