

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: P276837

Luminaire Tested: **24CZ2-60HE-RDP-UNV-L93050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276837
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: 24CZ2-60HE-RDP-UNV-L93050-W2A1-U-3000K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (336) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2985.8 lumens
Efficiency: N/A
Efficacy: 65.9 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

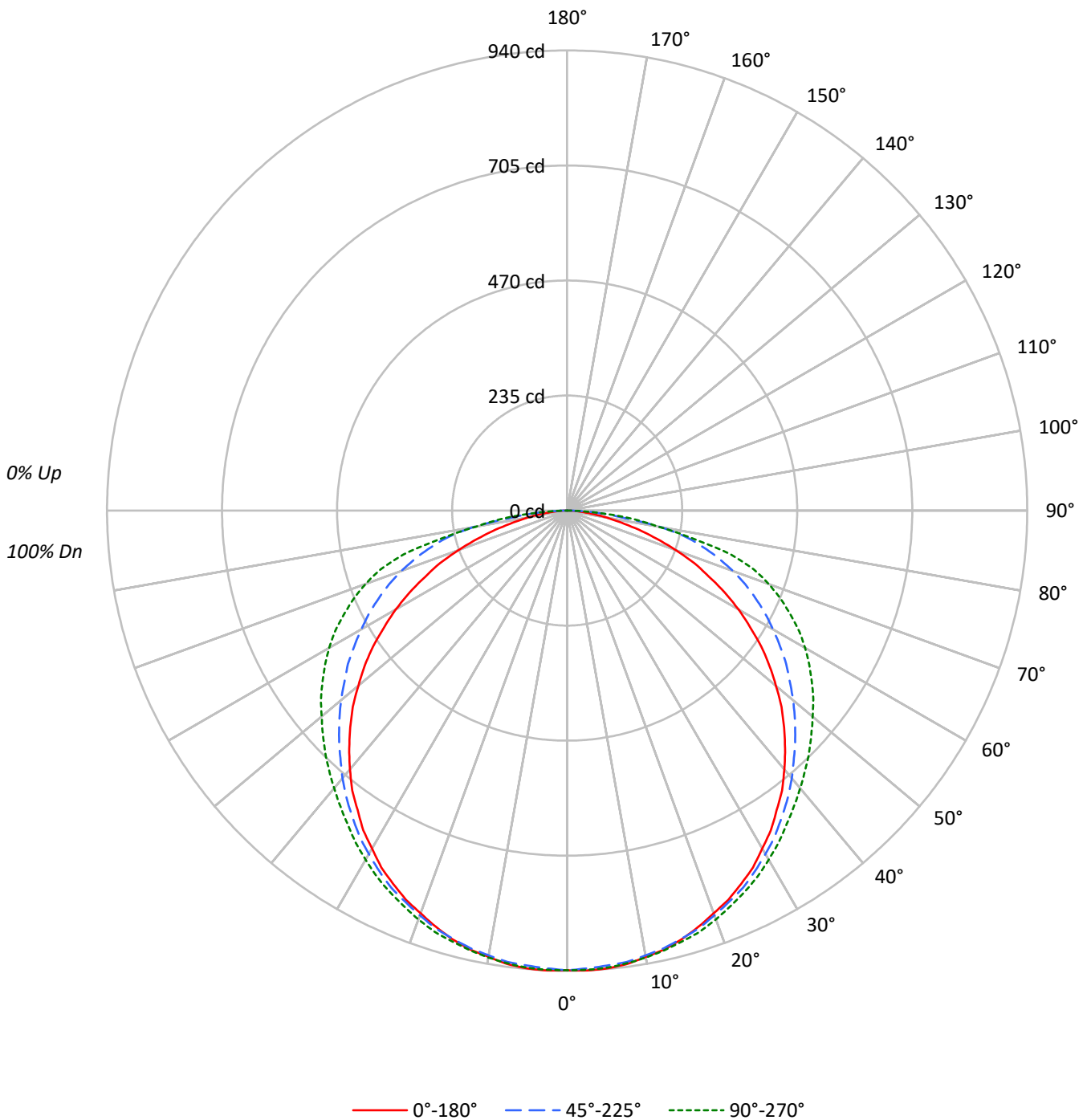
Input Watts (W): 45.286164
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1263	1263	1263
5°	1268	1260	1266
10°	1265	1261	1267
15°	1263	1260	1269
20°	1253	1260	1272
25°	1249	1262	1275
30°	1238	1259	1279
35°	1226	1255	1284
40°	1212	1254	1301
45°	1192	1254	1330
50°	1166	1262	1370
55°	1136	1282	1431
60°	1088	1307	1510
65°	1018	1353	1603
70°	926	1416	1725
75°	786	1494	1802
80°	620	1503	1457
85°	457	1144	1280



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.1	3.0
10°-20°	256.3	8.6
20°-30°	392.0	13.1
30°-40°	479.2	16.0
40°-50°	510.7	17.1
50°-60°	488.3	16.4
60°-70°	413.7	13.9
70°-80°	278.0	9.3
80°-90°	78.4	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°	737.4	24.7
0°-40°	1216.6	40.7
0°-60°	2215.7	74.2
0°-90°	2985.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2985.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	939	939	939	939	939	
5°	939	938	933	938	938	89
15°	906	906	905	912	911	256
25°	841	844	850	858	859	388
35°	746	752	764	779	782	468
45°	626	637	659	687	699	483
55°	484	502	546	589	610	431
65°	320	352	425	481	504	318
75°	151	206	287	336	347	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°	939.0	939.0	939.0	939.0	939.0
2.5°	940.4	940.4	936.0	939.0	939.0
5°	939.0	937.5	933.0	937.5	937.5
7.5°	934.5	933.0	930.1	934.5	933.0
10°	925.6	925.6	922.7	927.1	927.1
12.5°	918.2	916.7	915.3	921.2	919.7
15°	906.4	906.4	904.9	912.3	910.8
17.5°	891.6	893.0	894.5	900.5	901.9
20°	875.3	878.2	879.7	888.6	888.6
22.5°	860.5	861.9	864.9	873.8	873.8
25°	841.2	844.2	850.1	857.5	859.0
27.5°	822.0	823.4	830.8	841.2	842.7
30°	796.8	801.2	810.1	822.0	823.4
32.5°	774.6	779.0	789.4	801.2	804.2
35°	746.4	752.4	764.2	779.0	782.0
37.5°	721.3	725.7	740.5	756.8	761.2
40°	690.1	699.0	713.8	733.1	740.5
42.5°	659.0	667.9	685.7	710.9	719.8
45°	626.5	636.8	659.0	687.2	699.0
47.5°	593.9	605.7	630.9	663.5	676.8
50°	556.9	571.7	602.8	639.8	654.6
52.5°	521.3	539.1	573.1	614.6	633.9
55°	484.3	502.1	546.5	589.4	610.2
57.5°	442.8	466.5	515.4	564.3	586.5
60°	404.3	426.5	485.8	539.1	561.3
62.5°	362.8	392.5	456.2	512.4	534.6
65°	319.9	352.5	425.0	481.3	503.5
67.5°	281.4	316.9	393.9	450.2	472.4
70°	235.5	279.9	359.9	416.2	438.4
72.5°	192.5	241.4	324.3	379.1	399.9
75°	151.1	205.9	287.3	336.2	346.6
77.5°	112.6	170.3	248.8	269.5	262.1
80°	80.0	136.3	194.0	183.6	188.1
82.5°	51.8	103.7	120.0	136.3	140.7
85°	29.6	60.7	74.1	80.0	82.9
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)