

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: P263506

Luminaire Tested: **24CZ-LD5-40-RDP-UNV-L83050-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263506
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25696)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ-LD5-40-RDP-UNV-L83050-W2A1-U-5000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (336) 80 CRI LEDS TUNED AT 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3001.0 lumens
Efficiency: N/A
Efficacy: 101.2 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

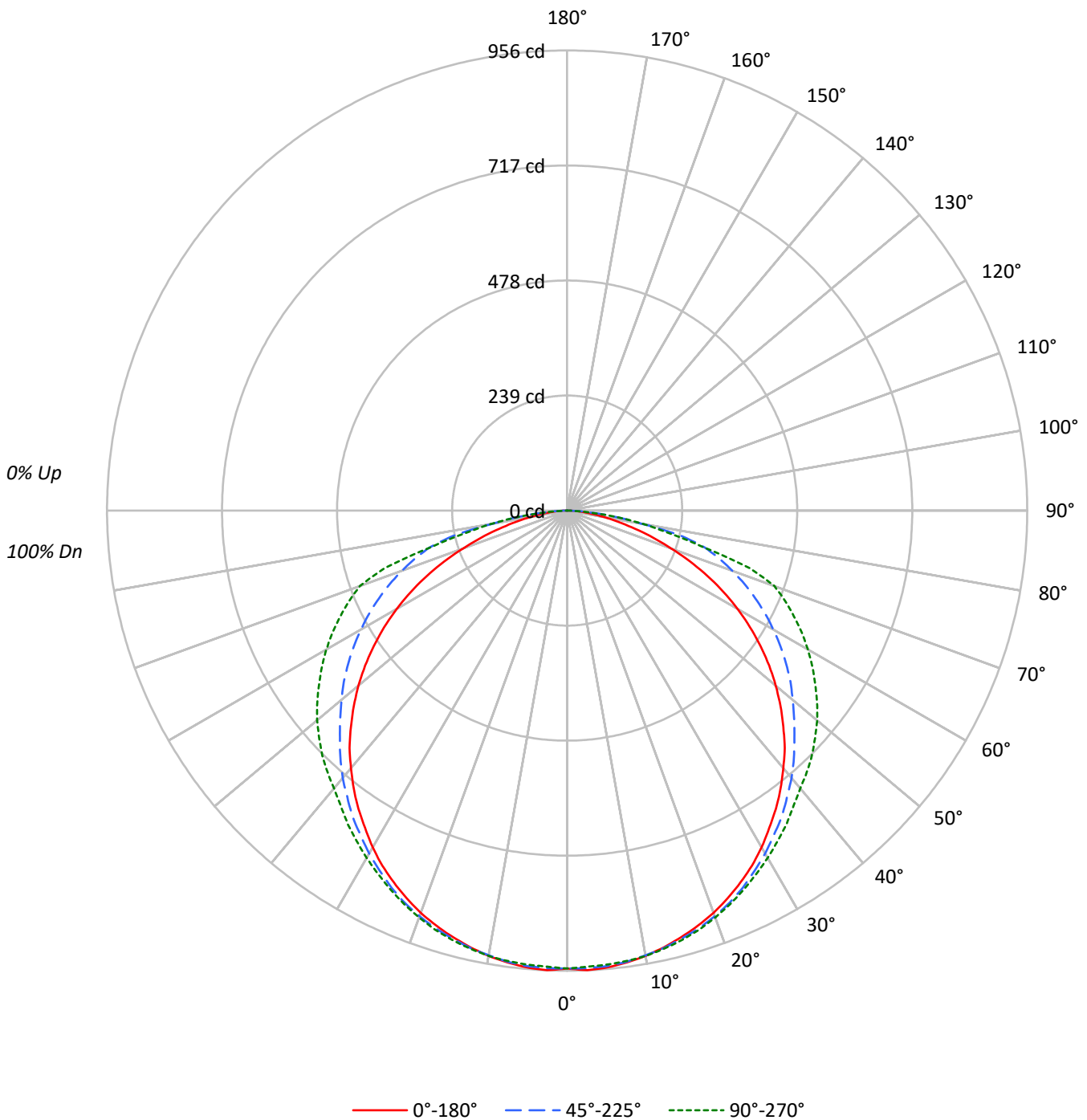
Input Watts (W): 29.657328
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	101	97	93	96	93	90		92	90	87		89	87	84	82
2	98	89	82	76	95	87	80	75	83	78	73		80	75	71		77	73	70	67
3	89	78	69	62	86	76	68	62	73	66	60		70	64	59		67	62	58	56
4	81	68	59	52	78	67	58	52	64	57	51		62	56	50		60	54	50	47
5	74	61	51	45	72	60	51	44	57	50	44		55	49	43		54	48	43	41
6	68	55	45	39	66	54	45	38	52	44	38		50	43	38		48	42	37	35
7	63	49	40	34	61	48	40	34	47	39	34		45	38	33		44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30		42	35	30		40	34	29	27
9	55	41	33	27	53	41	32	27	39	32	27		38	32	27		37	31	27	25
10	51	38	30	24	50	37	30	24	36	29	24		35	29	24		35	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1280	1280	1280
5°	1287	1283	1279
10°	1284	1282	1284
15°	1278	1282	1286
20°	1273	1284	1288
25°	1265	1283	1290
30°	1255	1278	1294
35°	1242	1276	1305
40°	1227	1274	1323
45°	1209	1271	1369
50°	1184	1280	1419
55°	1150	1303	1476
60°	1101	1332	1554
65°	1025	1373	1656
70°	906	1435	1801
75°	760	1536	1513
80°	607	1213	1259
85°	479	821	752



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.2	3.0
10°-20°	259.7	8.7
20°-30°	396.6	13.2
30°-40°	484.9	16.2
40°-50°	519.1	17.3
50°-60°	497.9	16.6
60°-70°	420.4	14.0
70°-80°	268.7	9.0
80°-90°	63.5	2.1
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°	746.6	24.9
0°-40°	1231.5	41.0
0°-60°	2248.4	74.9
0°-90°	3001.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3001.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	951	951	951	951	951	
5°	953	947	950	948	947	90
15°	917	914	920	923	923	259
25°	852	851	864	867	869	393
35°	756	762	777	787	795	473
45°	635	646	668	699	719	490
55°	490	507	555	606	629	438
65°	322	353	431	492	520	318
75°	146	208	295	301	291	157
85°	31	52	53	52	49	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	951.3	951.3	951.3	951.3	951.3
2.5°	955.8	949.9	951.3	951.3	948.4
5°	952.8	946.9	949.9	948.4	946.9
7.5°	946.9	942.5	945.4	945.4	944.0
10°	939.5	935.1	938.0	939.5	939.5
12.5°	929.2	926.2	930.7	930.7	932.1
15°	917.4	914.4	920.3	923.3	923.3
17.5°	904.1	902.6	910.0	911.5	912.9
20°	889.3	887.8	896.7	896.7	899.6
22.5°	871.6	870.1	881.9	881.9	884.9
25°	852.4	850.9	864.2	867.1	868.6
27.5°	831.7	830.2	843.5	847.9	850.9
30°	808.0	808.0	822.8	828.7	833.2
32.5°	781.5	785.9	799.2	808.0	814.0
35°	756.3	762.3	777.0	787.4	794.8
37.5°	728.3	734.2	750.4	763.7	772.6
40°	698.7	706.1	725.3	740.1	753.4
42.5°	669.2	676.6	697.3	719.4	737.1
45°	635.2	645.6	667.7	698.7	719.4
47.5°	601.2	611.6	639.6	678.1	698.7
50°	565.8	577.6	611.6	655.9	678.1
52.5°	528.9	542.1	585.0	632.3	654.4
55°	490.4	506.7	555.4	605.7	629.3
57.5°	450.6	468.3	525.9	579.1	604.2
60°	409.2	431.4	494.9	551.0	577.6
62.5°	366.4	392.9	463.9	521.5	549.5
65°	322.0	353.1	431.4	491.9	520.0
67.5°	276.2	317.6	398.9	462.4	490.4
70°	230.4	279.2	364.9	429.9	457.9
72.5°	187.6	243.7	330.9	391.5	397.4
75°	146.2	208.3	295.4	301.4	291.0
77.5°	109.3	172.8	243.7	217.2	215.7
80°	78.3	138.9	156.6	161.0	162.5
82.5°	51.7	104.9	101.9	104.9	103.4
85°	31.0	51.7	53.2	51.7	48.7
87.5°	14.8	19.2	14.8	13.3	11.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)