

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: P263665

Luminaire Tested: **24CZ-LD5-40-RDP-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263665
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-L82765-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: 2915.0 lumens
Efficiency: N/A
Efficacy: 100.8 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

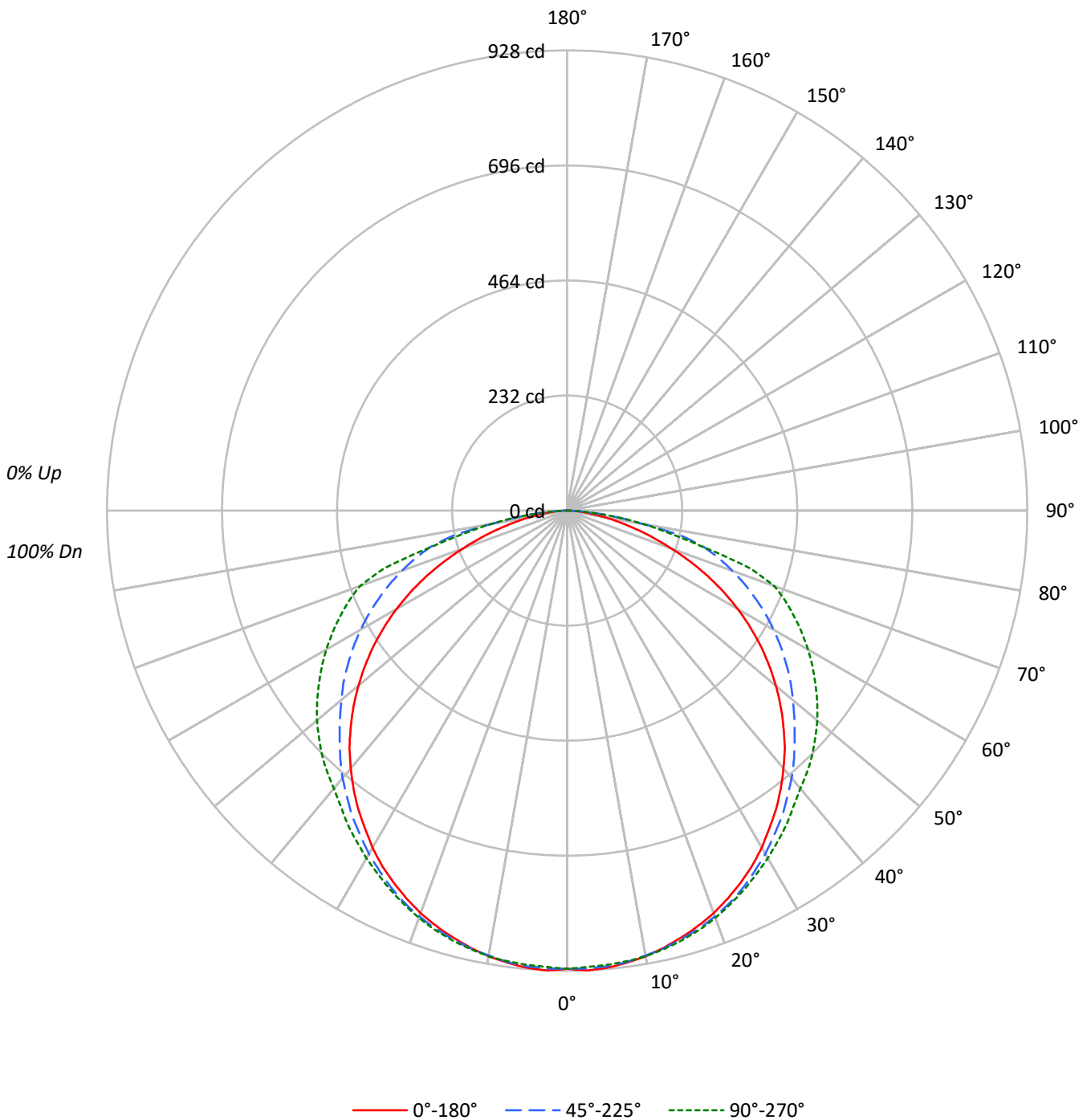
Input Watts (W): 28.923
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1243	1243	1243
5°	1250	1246	1242
10°	1247	1245	1247
15°	1241	1245	1249
20°	1237	1247	1251
25°	1229	1246	1253
30°	1219	1242	1257
35°	1207	1240	1268
40°	1192	1237	1285
45°	1174	1234	1330
50°	1150	1244	1379
55°	1118	1266	1434
60°	1070	1294	1510
65°	996	1334	1608
70°	880	1394	1750
75°	739	1492	1470
80°	590	1179	1223
85°	465	798	732



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.6	3.0
10°-20°	252.2	8.7
20°-30°	385.3	13.2
30°-40°	471.0	16.2
40°-50°	504.2	17.3
50°-60°	483.6	16.6
60°-70°	408.3	14.0
70°-80°	261.0	9.0
80°-90°	61.7	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°	725.2	24.9
0°-40°	1196.2	41.0
0°-60°	2184.0	74.9
0°-90°	2915.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2915.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	924	924	924	924	924	
5°	926	920	923	921	920	88
15°	891	888	894	897	897	252
25°	828	826	839	842	844	382
35°	735	740	755	765	772	459
45°	617	627	649	679	699	476
55°	476	492	540	588	611	425
65°	313	343	419	478	505	309
75°	142	202	287	293	283	153
85°	30	50	52	50	47	36
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	924.1	924.1	924.1	924.1	924.1
2.5°	928.4	922.6	924.1	924.1	921.2
5°	925.5	919.8	922.6	921.2	919.8
7.5°	919.8	915.5	918.3	918.3	916.9
10°	912.6	908.3	911.2	912.6	912.6
12.5°	902.6	899.7	904.0	904.0	905.4
15°	891.1	888.2	893.9	896.8	896.8
17.5°	878.2	876.7	883.9	885.3	886.8
20°	863.8	862.4	871.0	871.0	873.9
22.5°	846.6	845.2	856.6	856.6	859.5
25°	827.9	826.5	839.4	842.3	843.7
27.5°	807.9	806.4	819.3	823.6	826.5
30°	784.9	784.9	799.2	805.0	809.3
32.5°	759.1	763.4	776.3	784.9	790.6
35°	734.7	740.4	754.8	764.8	772.0
37.5°	707.4	713.1	728.9	741.8	750.5
40°	678.7	685.9	704.5	718.9	731.8
42.5°	650.0	657.2	677.3	698.8	716.0
45°	617.0	627.1	648.6	678.7	698.8
47.5°	584.0	594.1	621.3	658.6	678.7
50°	549.6	561.0	594.1	637.1	658.6
52.5°	513.7	526.6	568.2	614.1	635.7
55°	476.4	492.2	539.5	588.3	611.3
57.5°	437.6	454.9	510.8	562.5	586.9
60°	397.5	419.0	480.7	535.2	561.0
62.5°	355.9	381.7	450.6	506.5	533.8
65°	312.8	342.9	419.0	477.8	505.1
67.5°	268.3	308.5	387.4	449.1	476.4
70°	223.8	271.2	354.4	417.6	444.8
72.5°	182.2	236.8	321.4	380.3	386.0
75°	142.1	202.3	287.0	292.7	282.7
77.5°	106.2	167.9	236.8	210.9	209.5
80°	76.1	134.9	152.1	156.4	157.8
82.5°	50.2	101.9	99.0	101.9	100.4
85°	30.1	50.2	51.7	50.2	47.4
87.5°	14.3	18.7	14.3	12.9	11.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)