

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: P263503

Luminaire Tested: **24CZ-LD5-40-RDP-UNV-L83050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263503
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-3500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (336) 80 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2831.0 lumens
Efficiency: N/A
Efficacy: 100.1 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

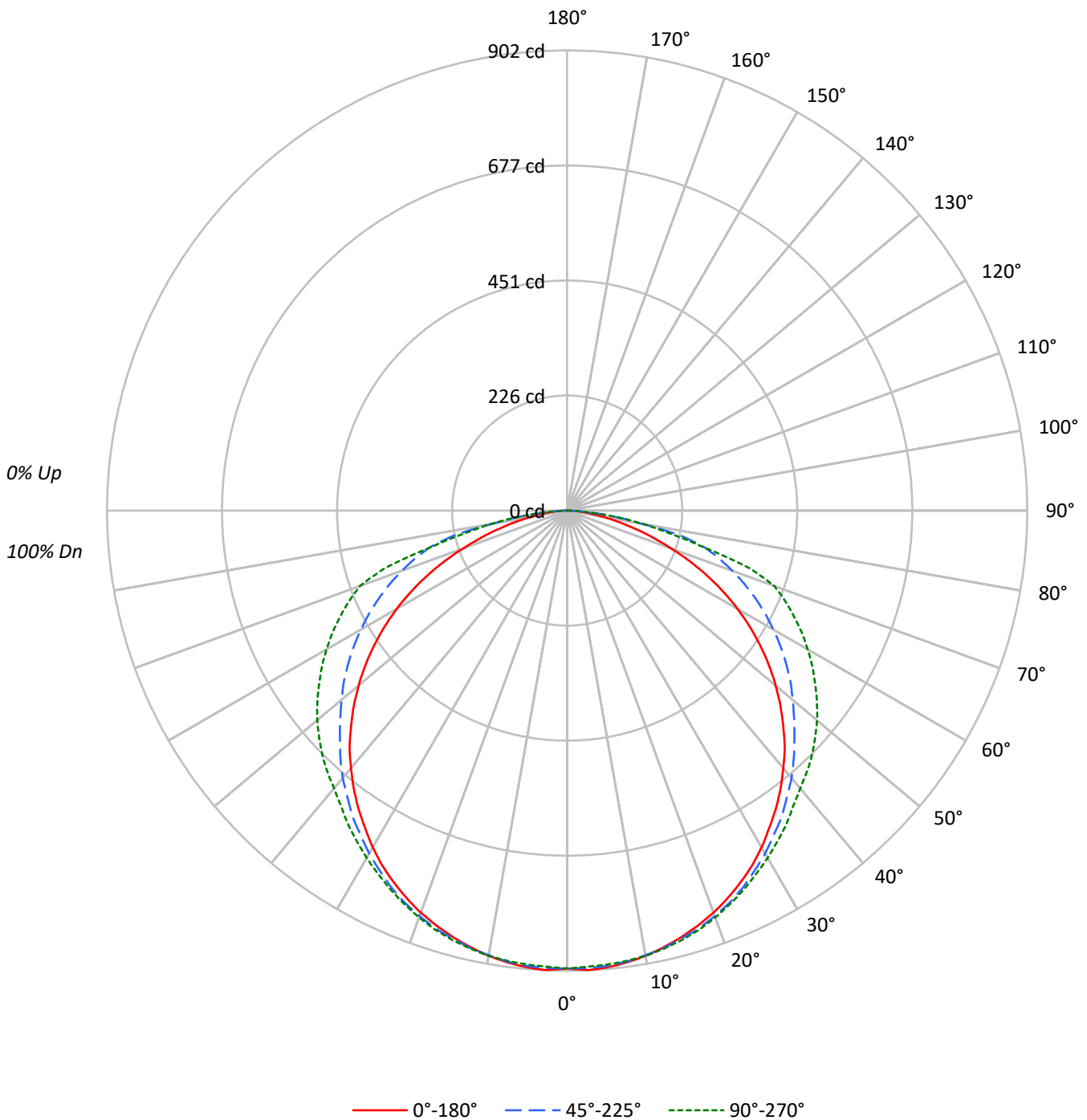
Input Watts (W): 28.272
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1208	1208	1208
5°	1214	1210	1207
10°	1211	1209	1211
15°	1205	1209	1213
20°	1201	1211	1215
25°	1194	1210	1216
30°	1184	1206	1221
35°	1172	1204	1231
40°	1158	1202	1248
45°	1140	1199	1291
50°	1117	1208	1339
55°	1085	1229	1393
60°	1039	1256	1466
65°	967	1295	1562
70°	855	1354	1699
75°	717	1449	1427
80°	573	1144	1188
85°	452	775	710



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.1	3.0
10°-20°	245.0	8.7
20°-30°	374.2	13.2
30°-40°	457.5	16.2
40°-50°	489.7	17.3
50°-60°	469.7	16.6
60°-70°	396.6	14.0
70°-80°	253.4	9.0
80°-90°	59.9	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°	704.3	24.9
0°-40°	1161.7	41.0
0°-60°	2121.1	74.9
0°-90°	2831.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2831.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	898	898	898	898	898	
5°	899	893	896	895	893	85
15°	865	863	868	871	871	244
25°	804	803	815	818	819	371
35°	714	719	733	743	750	446
45°	599	609	630	659	679	462
55°	463	478	524	571	594	413
65°	304	333	407	464	490	300
75°	138	196	279	284	274	149
85°	29	49	50	49	46	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	897.5	897.5	897.5	897.5	897.5
2.5°	901.6	896.1	897.5	897.5	894.7
5°	898.8	893.3	896.1	894.7	893.3
7.5°	893.3	889.1	891.9	891.9	890.5
10°	886.3	882.1	884.9	886.3	886.3
12.5°	876.5	873.8	877.9	877.9	879.3
15°	865.4	862.6	868.2	871.0	871.0
17.5°	852.9	851.5	858.4	859.8	861.2
20°	838.9	837.5	845.9	845.9	848.7
22.5°	822.2	820.8	832.0	832.0	834.7
25°	804.1	802.7	815.2	818.0	819.4
27.5°	784.6	783.2	795.7	799.9	802.7
30°	762.3	762.3	776.2	781.8	786.0
32.5°	737.2	741.4	753.9	762.3	767.8
35°	713.5	719.1	733.0	742.8	749.7
37.5°	687.0	692.6	707.9	720.5	728.8
40°	659.2	666.1	684.2	698.2	710.7
42.5°	631.3	638.2	657.8	678.7	695.4
45°	599.2	609.0	629.9	659.2	678.7
47.5°	567.2	576.9	603.4	639.6	659.2
50°	533.7	544.9	576.9	618.7	639.6
52.5°	498.9	511.4	551.8	596.4	617.3
55°	462.7	478.0	524.0	571.4	593.7
57.5°	425.0	441.8	496.1	546.3	570.0
60°	386.0	406.9	466.8	519.8	544.9
62.5°	345.6	370.7	437.6	491.9	518.4
65°	303.8	333.1	406.9	464.1	490.5
67.5°	260.6	299.6	376.3	436.2	462.7
70°	217.4	263.4	344.2	405.5	432.0
72.5°	177.0	229.9	312.2	369.3	374.9
75°	138.0	196.5	278.7	284.3	274.5
77.5°	103.1	163.0	229.9	204.9	203.5
80°	73.9	131.0	147.7	151.9	153.3
82.5°	48.8	98.9	96.2	98.9	97.5
85°	29.3	48.8	50.2	48.8	46.0
87.5°	13.9	18.1	13.9	12.5	11.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)