

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: P263755

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263755
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-LD5-40SE-RDP-UNV-L82765-W2A1-U-5000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2897.0 lumens
Efficiency: N/A
Efficacy: 93.0 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

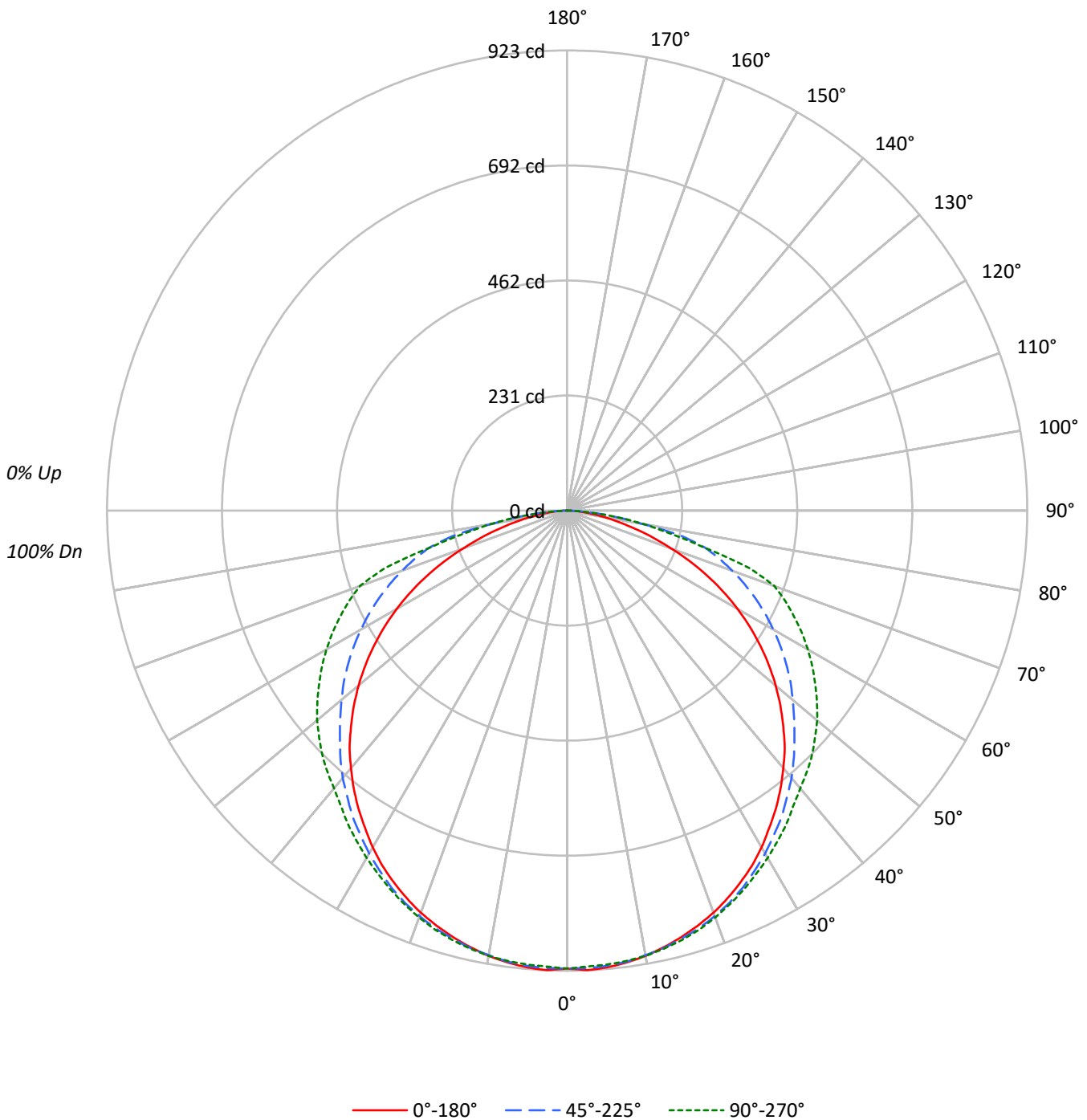
Input Watts (W): 31.155
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1236	1236	1236
5°	1242	1238	1235
10°	1239	1237	1239
15°	1234	1237	1242
20°	1229	1239	1244
25°	1222	1238	1245
30°	1212	1234	1250
35°	1199	1232	1260
40°	1185	1230	1277
45°	1167	1227	1322
50°	1143	1236	1370
55°	1110	1258	1425
60°	1063	1285	1500
65°	990	1326	1598
70°	875	1386	1739
75°	734	1483	1460
80°	586	1172	1216
85°	462	792	727



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.1	3.0
10°-20°	250.7	8.7
20°-30°	382.9	13.2
30°-40°	468.1	16.2
40°-50°	501.1	17.3
50°-60°	480.6	16.6
60°-70°	405.8	14.0
70°-80°	259.3	9.0
80°-90°	61.3	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°	720.7	24.9
0°-40°	1188.8	41.0
0°-60°	2170.5	74.9
0°-90°	2897.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2897.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	918	918	918	918	918	
5°	920	914	917	916	914	87
15°	886	883	888	891	891	250
25°	823	821	834	837	838	379
35°	730	736	750	760	767	456
45°	613	623	645	674	694	473
55°	473	489	536	585	608	422
65°	311	341	416	475	502	307
75°	141	201	285	291	281	152
85°	30	50	51	50	47	36
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	918.4	918.4	918.4	918.4	918.4
2.5°	922.7	916.9	918.4	918.4	915.5
5°	919.8	914.1	916.9	915.5	914.1
7.5°	914.1	909.8	912.7	912.7	911.2
10°	907.0	902.7	905.5	907.0	907.0
12.5°	897.0	894.1	898.4	898.4	899.8
15°	885.6	882.7	888.4	891.3	891.3
17.5°	872.7	871.3	878.4	879.9	881.3
20°	858.5	857.1	865.6	865.6	868.5
22.5°	841.4	839.9	851.3	851.3	854.2
25°	822.8	821.4	834.2	837.1	838.5
27.5°	802.9	801.4	814.3	818.6	821.4
30°	780.0	780.0	794.3	800.0	804.3
32.5°	754.4	758.7	771.5	780.0	785.8
35°	730.1	735.8	750.1	760.1	767.2
37.5°	703.0	708.7	724.4	737.3	745.8
40°	674.5	681.6	700.2	714.4	727.3
42.5°	646.0	653.1	673.1	694.5	711.6
45°	613.2	623.2	644.6	674.5	694.5
47.5°	580.4	590.4	617.5	654.6	674.5
50°	546.2	557.6	590.4	633.2	654.6
52.5°	510.5	523.4	564.7	610.3	631.7
55°	473.4	489.1	536.2	584.7	607.5
57.5°	434.9	452.1	507.7	559.0	583.3
60°	395.0	416.4	477.7	531.9	557.6
62.5°	353.7	379.3	447.8	503.4	530.5
65°	310.9	340.8	416.4	474.9	502.0
67.5°	266.7	306.6	385.0	446.4	473.4
70°	222.5	269.5	352.2	415.0	442.1
72.5°	181.1	235.3	319.4	377.9	383.6
75°	141.2	201.1	285.2	290.9	280.9
77.5°	105.5	166.8	235.3	209.6	208.2
80°	75.6	134.0	151.2	155.4	156.9
82.5°	49.9	101.2	98.4	101.2	99.8
85°	29.9	49.9	51.3	49.9	47.1
87.5°	14.3	18.5	14.3	12.8	11.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)