

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: P263577

Luminaire Tested: **24CZ-LD5-40-RDP-UNV-L93050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263577
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-L93050-W2A1-U-3000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (336) 90 CRI LEDS TUNED AT 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2202.3 lumens
Efficiency: N/A
Efficacy: 76.1 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

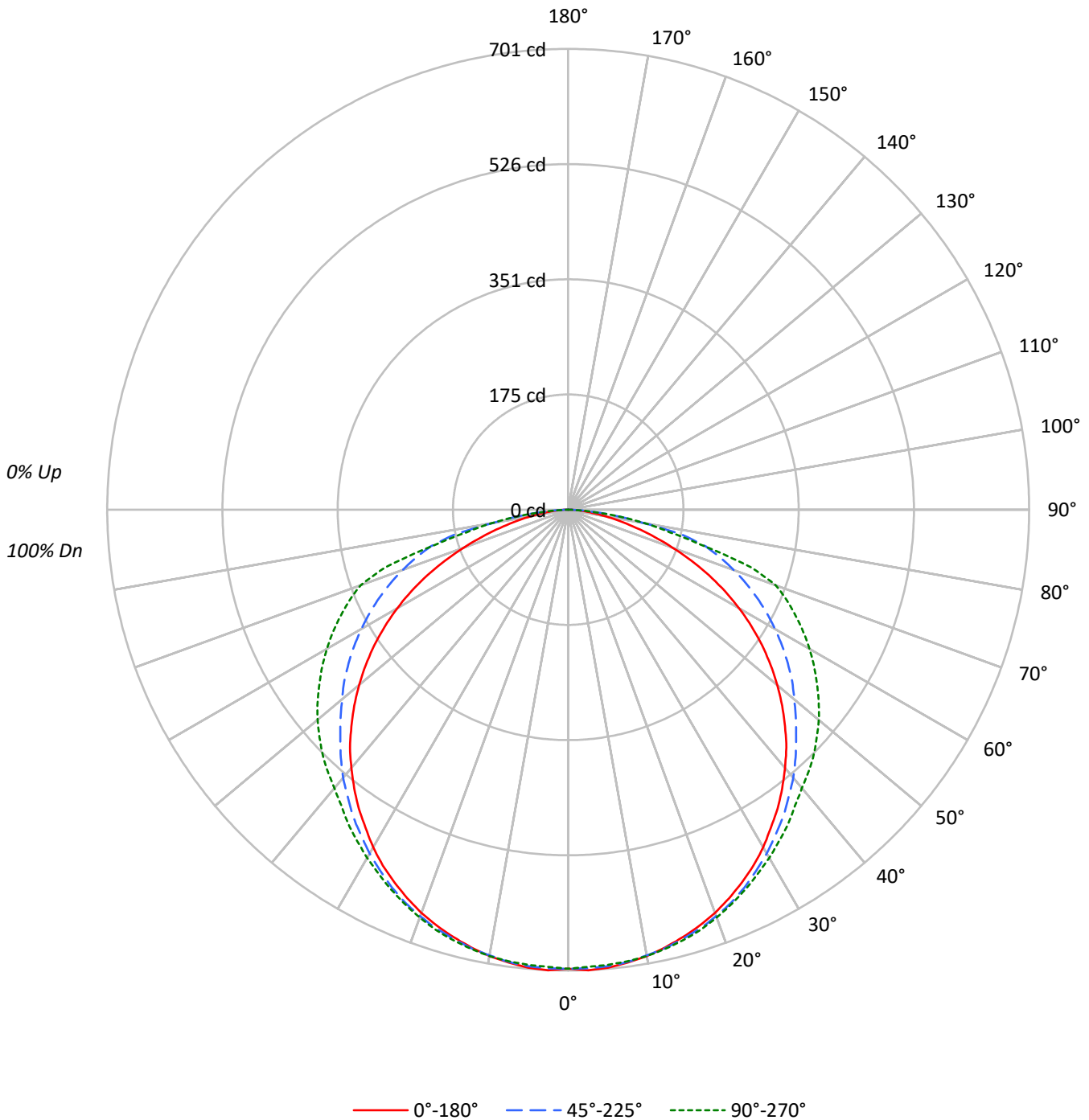
Input Watts (W): 28.922256
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	61	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°	939	939	939
5°	944	942	939
10°	942	941	942
15°	938	941	944
20°	934	942	945
25°	929	942	946
30°	921	938	950
35°	912	937	958
40°	901	935	971
45°	887	932	1004
50°	869	939	1042
55°	844	956	1083
60°	808	977	1141
65°	752	1008	1215
70°	665	1054	1322
75°	558	1127	1110
80°	446	890	924
85°	352	602	553



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.2	3.0
10°-20°	190.6	8.7
20°-30°	291.1	13.2
30°-40°	355.9	16.2
40°-50°	380.9	17.3
50°-60°	365.4	16.6
60°-70°	308.5	14.0
70°-80°	197.2	9.0
80°-90°	46.6	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°	547.9	24.9
0°-40°	903.7	41.0
0°-60°	1650.0	74.9
0°-90°	2202.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2202.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	698	698	698	698	698	
5°	699	695	697	696	695	66
15°	673	671	675	678	678	190
25°	626	624	634	636	637	288
35°	555	559	570	578	583	347
45°	466	474	490	513	528	360
55°	360	372	408	444	462	321
65°	236	259	317	361	382	233
75°	107	153	217	221	214	116
85°	23	38	39	38	36	27
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	698.2	698.2	698.2	698.2	698.2
2.5°	701.4	697.1	698.2	698.2	696.0
5°	699.2	694.9	697.1	696.0	694.9
7.5°	694.9	691.6	693.8	693.8	692.7
10°	689.5	686.2	688.4	689.5	689.5
12.5°	681.9	679.7	683.0	683.0	684.1
15°	673.2	671.0	675.4	677.6	677.6
17.5°	663.5	662.4	667.8	668.9	670.0
20°	652.6	651.5	658.0	658.0	660.2
22.5°	639.6	638.5	647.2	647.2	649.4
25°	625.5	624.4	634.2	636.4	637.4
27.5°	610.3	609.3	619.0	622.3	624.4
30°	593.0	593.0	603.8	608.2	611.4
32.5°	573.5	576.7	586.5	593.0	597.3
35°	555.1	559.4	570.2	577.8	583.2
37.5°	534.5	538.8	550.7	560.5	567.0
40°	512.8	518.2	532.3	543.1	552.9
42.5°	491.1	496.5	511.7	527.9	541.0
45°	466.2	473.7	490.0	512.8	527.9
47.5°	441.2	448.8	469.4	497.6	512.8
50°	415.2	423.9	448.8	481.3	497.6
52.5°	388.1	397.9	429.3	464.0	480.3
55°	359.9	371.8	407.6	444.5	461.8
57.5°	330.6	343.7	385.9	425.0	443.4
60°	300.3	316.6	363.2	404.4	423.9
62.5°	268.9	288.4	340.4	382.7	403.3
65°	236.3	259.1	316.6	361.0	381.6
67.5°	202.7	233.1	292.7	339.3	359.9
70°	169.1	204.9	267.8	315.5	336.1
72.5°	137.7	178.9	242.8	287.3	291.6
75°	107.3	152.9	216.8	221.2	213.6
77.5°	80.2	126.8	178.9	159.4	158.3
80°	57.5	101.9	114.9	118.2	119.2
82.5°	37.9	77.0	74.8	77.0	75.9
85°	22.8	37.9	39.0	37.9	35.8
87.5°	10.8	14.1	10.8	9.8	8.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)