

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: P276868

Luminaire Tested: **24CZ2-40-RDP-UNV-L93050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276868
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1808-918-19)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ2-40-RDP-UNV-L93050-W2A1-U-3500K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2189.2 lumens
Efficiency: N/A
Efficacy: 70.6 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

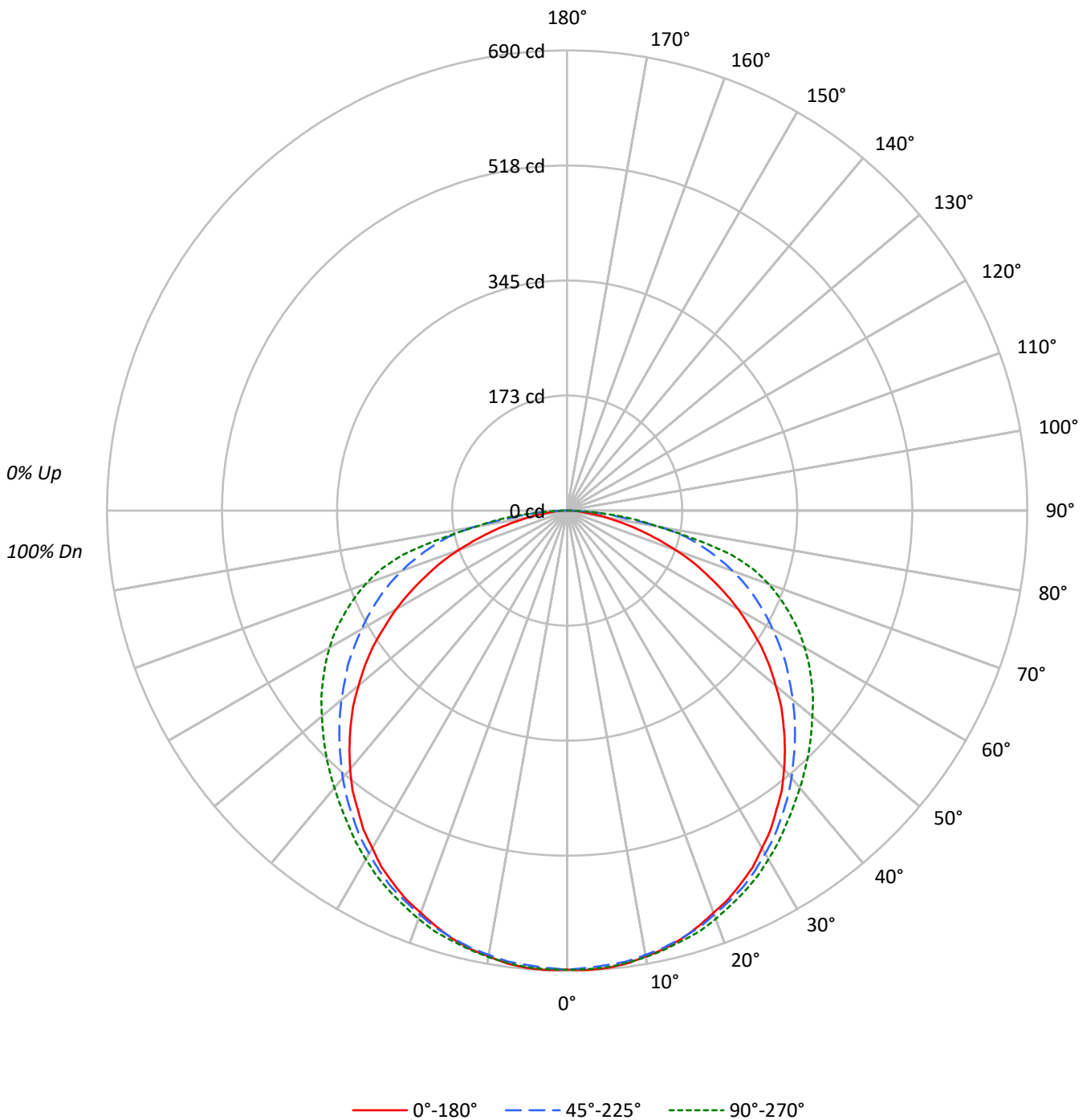
Input Watts (W): 30.988809
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100	96	92	96	93	89	92	89	87	88	86	84	82
2	97	89	81	75	95	87	80	74	83	77	72	80	75	71	77	73	69	67
3	88	77	68	62	86	76	68	61	72	66	60	70	64	59	67	62	58	56
4	81	68	59	52	78	67	58	51	64	57	51	62	55	50	59	54	49	47
5	74	60	51	44	72	59	51	44	57	49	43	55	48	43	53	47	42	40
6	68	54	45	38	66	53	45	38	51	44	38	50	43	37	48	42	37	35
7	63	49	40	34	61	48	40	34	47	39	33	45	38	33	44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30	41	34	29	40	34	29	27
9	55	41	33	27	53	40	32	27	39	32	27	38	31	26	37	31	26	24
10	51	38	30	24	50	37	29	24	36	29	24	35	29	24	34	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	926	926	926
5°	930	924	928
10°	927	924	929
15°	926	924	930
20°	919	924	933
25°	916	925	935
30°	908	923	938
35°	899	920	942
40°	889	919	954
45°	874	919	975
50°	855	925	1005
55°	833	940	1050
60°	798	959	1107
65°	747	992	1175
70°	679	1038	1264
75°	576	1095	1321
80°	454	1102	1068
85°	335	838	939



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.3	3.0
10°-20°	187.9	8.6
20°-30°	287.4	13.1
30°-40°	351.4	16.0
40°-50°	374.5	17.1
50°-60°	358.0	16.4
60°-70°	303.3	13.9
70°-80°	203.8	9.3
80°-90°	57.5	2.6
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°	540.7	24.7
0°-40°	892.0	40.7
0°-60°	1624.5	74.2
0°-90°	2189.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2189.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	688	688	688	688	688	
5°	688	687	684	687	687	65
15°	664	664	664	669	668	187
25°	617	619	623	629	630	284
35°	547	552	560	571	573	343
45°	459	467	483	504	512	354
55°	355	368	401	432	447	316
65°	234	258	312	353	369	233
75°	111	151	211	246	254	119
85°	22	44	54	59	61	27
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	688.4	688.4	688.4	688.4	688.4
2.5°	689.5	689.5	686.3	688.4	688.4
5°	688.4	687.4	684.1	687.4	687.4
7.5°	685.2	684.1	681.9	685.2	684.1
10°	678.7	678.7	676.5	679.8	679.8
12.5°	673.2	672.1	671.1	675.4	674.3
15°	664.5	664.5	663.5	668.9	667.8
17.5°	653.7	654.8	655.9	660.2	661.3
20°	641.7	643.9	645.0	651.5	651.5
22.5°	630.9	632.0	634.1	640.7	640.7
25°	616.8	618.9	623.3	628.7	629.8
27.5°	602.7	603.7	609.2	616.8	617.9
30°	584.2	587.5	594.0	602.7	603.7
32.5°	567.9	571.2	578.8	587.5	589.6
35°	547.3	551.6	560.3	571.2	573.3
37.5°	528.8	532.1	542.9	554.9	558.1
40°	506.0	512.5	523.4	537.5	542.9
42.5°	483.2	489.7	502.8	521.2	527.7
45°	459.3	466.9	483.2	503.8	512.5
47.5°	435.4	444.1	462.6	486.5	496.2
50°	408.3	419.1	441.9	469.1	480.0
52.5°	382.2	395.3	420.2	450.6	464.7
55°	355.1	368.1	400.7	432.2	447.4
57.5°	324.7	342.0	377.9	413.7	430.0
60°	296.4	312.7	356.2	395.3	411.5
62.5°	266.0	287.8	334.4	375.7	392.0
65°	234.5	258.4	311.6	352.9	369.2
67.5°	206.3	232.4	288.8	330.1	346.4
70°	172.7	205.2	263.9	305.1	321.4
72.5°	141.2	177.0	237.8	278.0	293.2
75°	110.8	150.9	210.7	246.5	254.1
77.5°	82.5	124.9	182.4	197.6	192.2
80°	58.6	99.9	142.2	134.6	137.9
82.5°	38.0	76.0	88.0	99.9	103.2
85°	21.7	44.5	54.3	58.6	60.8
87.5°	9.8	16.3	21.7	21.7	20.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)