

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: P276818

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276818
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: 24CZ2-40HE-RDP-UNV-L93050-W2A1-U-3500K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (336) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2202.7 lumens
Efficiency: N/A
Efficacy: 76.5 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

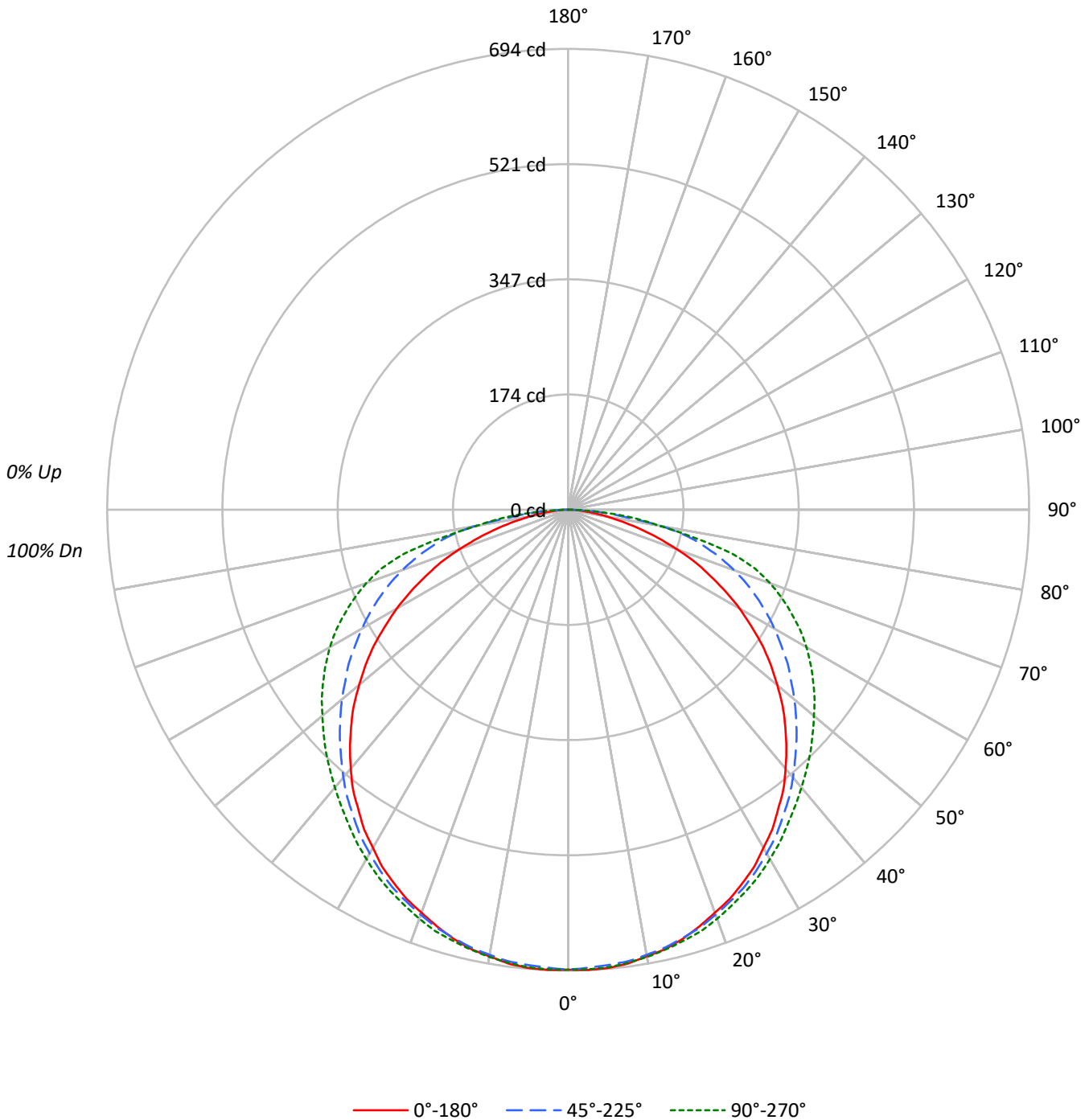
Input Watts (W): 28.809168
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	67	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°	932	932	932
5°	936	930	934
10°	933	930	934
15°	931	930	936
20°	925	929	939
25°	921	931	941
30°	913	928	944
35°	905	926	948
40°	894	925	960
45°	879	925	981
50°	860	931	1011
55°	838	946	1056
60°	803	964	1114
65°	751	998	1183
70°	683	1044	1272
75°	579	1102	1329
80°	457	1109	1075
85°	338	843	945



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.7	3.0
10°-20°	189.1	8.6
20°-30°	289.2	13.1
30°-40°	353.5	16.0
40°-50°	376.8	17.1
50°-60°	360.3	16.4
60°-70°	305.2	13.9
70°-80°	205.1	9.3
80°-90°	57.9	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°	544.0	24.7
0°-40°	897.5	40.7
0°-60°	1634.6	74.2
0°-90°	2202.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2202.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	693	693	693	693	693	
5°	693	692	688	692	692	66
15°	669	669	668	673	672	189
25°	621	623	627	633	634	286
35°	551	555	564	575	577	345
45°	462	470	486	507	516	356
55°	357	370	403	435	450	318
65°	236	260	314	355	372	234
75°	111	152	212	248	256	119
85°	22	45	55	59	61	27
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	692.7	692.7	692.7	692.7	692.7
2.5°	693.8	693.8	690.5	692.7	692.7
5°	692.7	691.6	688.3	691.6	691.6
7.5°	689.4	688.3	686.1	689.4	688.3
10°	682.9	682.9	680.7	683.9	683.9
12.5°	677.4	676.3	675.2	679.6	678.5
15°	668.7	668.7	667.6	673.0	671.9
17.5°	657.7	658.8	659.9	664.3	665.4
20°	645.7	647.9	649.0	655.5	655.5
22.5°	634.8	635.9	638.1	644.6	644.6
25°	620.6	622.8	627.1	632.6	633.7
27.5°	606.4	607.5	612.9	620.6	621.7
30°	587.8	591.1	597.6	606.4	607.5
32.5°	571.4	574.7	582.3	591.1	593.3
35°	550.7	555.0	563.8	574.7	576.9
37.5°	532.1	535.4	546.3	558.3	561.6
40°	509.1	515.7	526.6	540.8	546.3
42.5°	486.2	492.7	505.9	524.4	531.0
45°	462.2	469.8	486.2	507.0	515.7
47.5°	438.1	446.9	465.4	489.5	499.3
50°	410.8	421.7	444.7	472.0	482.9
52.5°	384.6	397.7	422.8	453.4	467.6
55°	357.3	370.4	403.2	434.8	450.1
57.5°	326.7	344.2	380.2	416.3	432.7
60°	298.3	314.7	358.4	397.7	414.1
62.5°	267.7	289.5	336.5	378.0	394.4
65°	236.0	260.0	313.6	355.1	371.5
67.5°	207.6	233.8	290.6	332.1	348.5
70°	173.7	206.5	265.5	307.0	323.4
72.5°	142.0	178.1	239.3	279.7	295.0
75°	111.4	151.9	212.0	248.0	255.7
77.5°	83.0	125.6	183.6	198.8	193.4
80°	59.0	100.5	143.1	135.5	138.8
82.5°	38.2	76.5	88.5	100.5	103.8
85°	21.9	44.8	54.6	59.0	61.2
87.5°	9.8	16.4	21.9	21.9	20.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)