

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: P276742

Luminaire Tested: **24CZ2-40HE-RDP-UNV-L83050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276742
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-L83050-W2A1-U-3000K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (336) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2449.0 lumens
Efficiency: N/A
Efficacy: 86.8 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

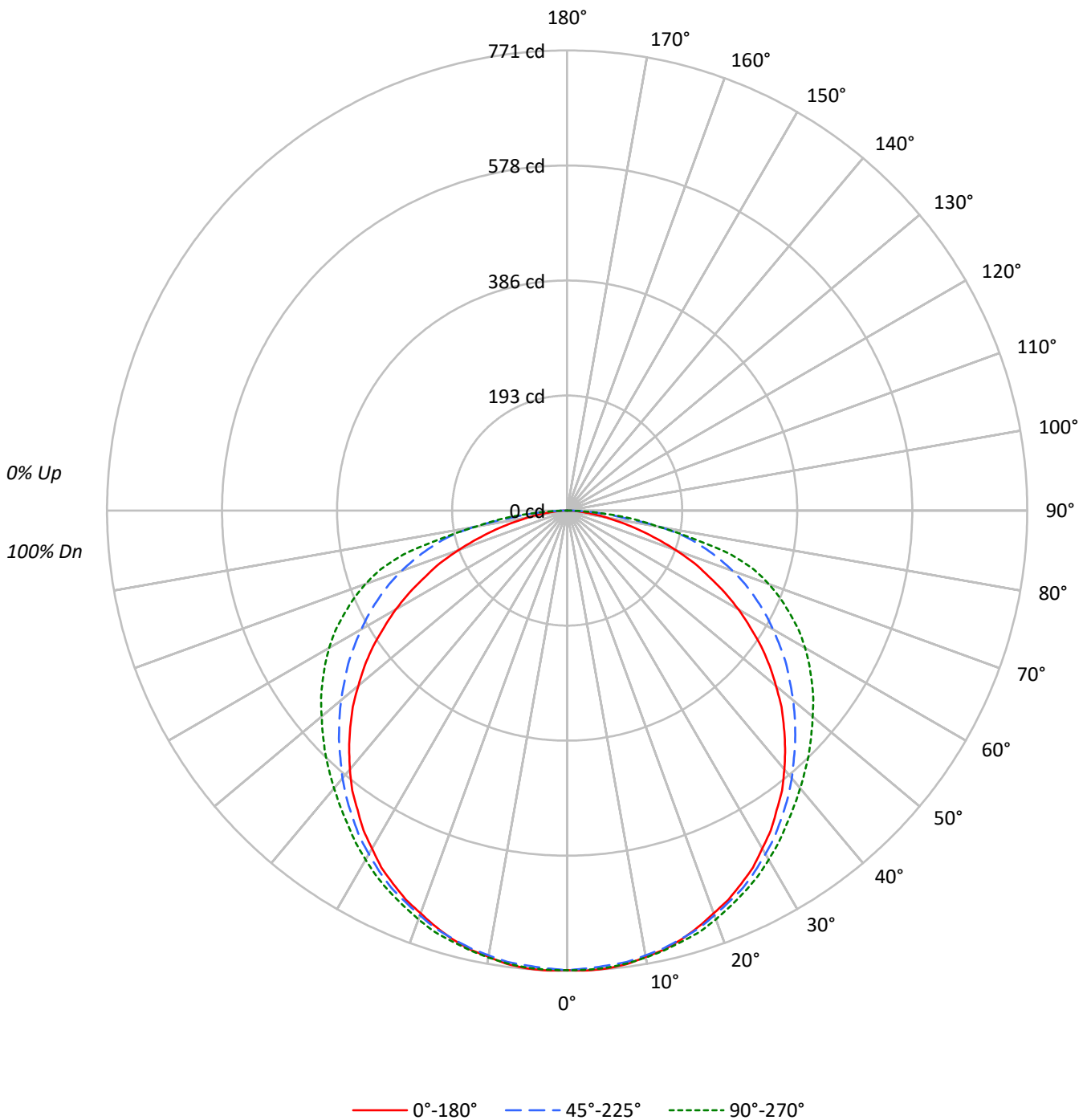
Input Watts (W): 28.215456
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1036	1036	1036
5°	1040	1034	1038
10°	1037	1034	1039
15°	1036	1034	1041
20°	1028	1033	1044
25°	1024	1035	1046
30°	1015	1032	1049
35°	1006	1030	1054
40°	994	1028	1067
45°	978	1029	1091
50°	956	1035	1124
55°	932	1051	1174
60°	892	1072	1239
65°	835	1110	1315
70°	760	1161	1415
75°	644	1225	1477
80°	508	1233	1196
85°	375	937	1050



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.1	3.0
10°-20°	210.3	8.6
20°-30°	321.5	13.1
30°-40°	393.1	16.0
40°-50°	418.9	17.1
50°-60°	400.5	16.4
60°-70°	339.3	13.9
70°-80°	228.0	9.3
80°-90°	64.3	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°	604.8	24.7
0°-40°	997.9	40.7
0°-60°	1817.3	74.2
0°-90°	2449.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2449.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	770	770	770	770	770	
5°	770	769	765	769	769	73
15°	743	743	742	748	747	210
25°	690	692	697	703	704	318
35°	612	617	627	639	641	384
45°	514	522	541	564	573	396
55°	397	412	448	484	500	354
65°	262	289	349	395	413	260
75°	124	169	236	276	284	133
85°	24	50	61	66	68	30
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	770.1	770.1	770.1	770.1	770.1
2.5°	771.4	771.4	767.7	770.1	770.1
5°	770.1	768.9	765.3	768.9	768.9
7.5°	766.5	765.3	762.9	766.5	765.3
10°	759.2	759.2	756.8	760.4	760.4
12.5°	753.1	751.9	750.7	755.6	754.3
15°	743.4	743.4	742.2	748.3	747.1
17.5°	731.3	732.5	733.7	738.6	739.8
20°	717.9	720.3	721.6	728.8	728.8
22.5°	705.8	707.0	709.4	716.7	716.7
25°	690.0	692.4	697.3	703.3	704.5
27.5°	674.2	675.4	681.5	690.0	691.2
30°	653.5	657.2	664.5	674.2	675.4
32.5°	635.3	638.9	647.5	657.2	659.6
35°	612.2	617.1	626.8	638.9	641.4
37.5°	591.6	595.2	607.4	620.7	624.4
40°	566.1	573.4	585.5	601.3	607.4
42.5°	540.6	547.8	562.4	583.1	590.4
45°	513.8	522.3	540.6	563.6	573.4
47.5°	487.1	496.8	517.5	544.2	555.1
50°	456.7	468.9	494.4	524.8	536.9
52.5°	427.6	442.2	470.1	504.1	519.9
55°	397.2	411.8	448.2	483.5	500.5
57.5°	363.2	382.6	422.7	462.8	481.0
60°	331.6	349.8	398.4	442.2	460.4
62.5°	297.6	321.9	374.1	420.3	438.5
65°	262.4	289.1	348.6	394.8	413.0
67.5°	230.8	260.0	323.1	369.3	387.5
70°	193.1	229.6	295.2	341.3	359.6
72.5°	157.9	198.0	266.0	311.0	328.0
75°	123.9	168.8	235.7	275.7	284.2
77.5°	92.3	139.7	204.1	221.1	215.0
80°	65.6	111.8	159.1	150.6	154.3
82.5°	42.5	85.0	98.4	111.8	115.4
85°	24.3	49.8	60.7	65.6	68.0
87.5°	10.9	18.2	24.3	24.3	23.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)