

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: P276988

Luminaire Tested: **24CZ2-35-RDP-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276988
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: 24CZ2-35-RDP-UNV-L82765-W2A1-U-5700K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2359.2 lumens
Efficiency: N/A
Efficacy: 88.1 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

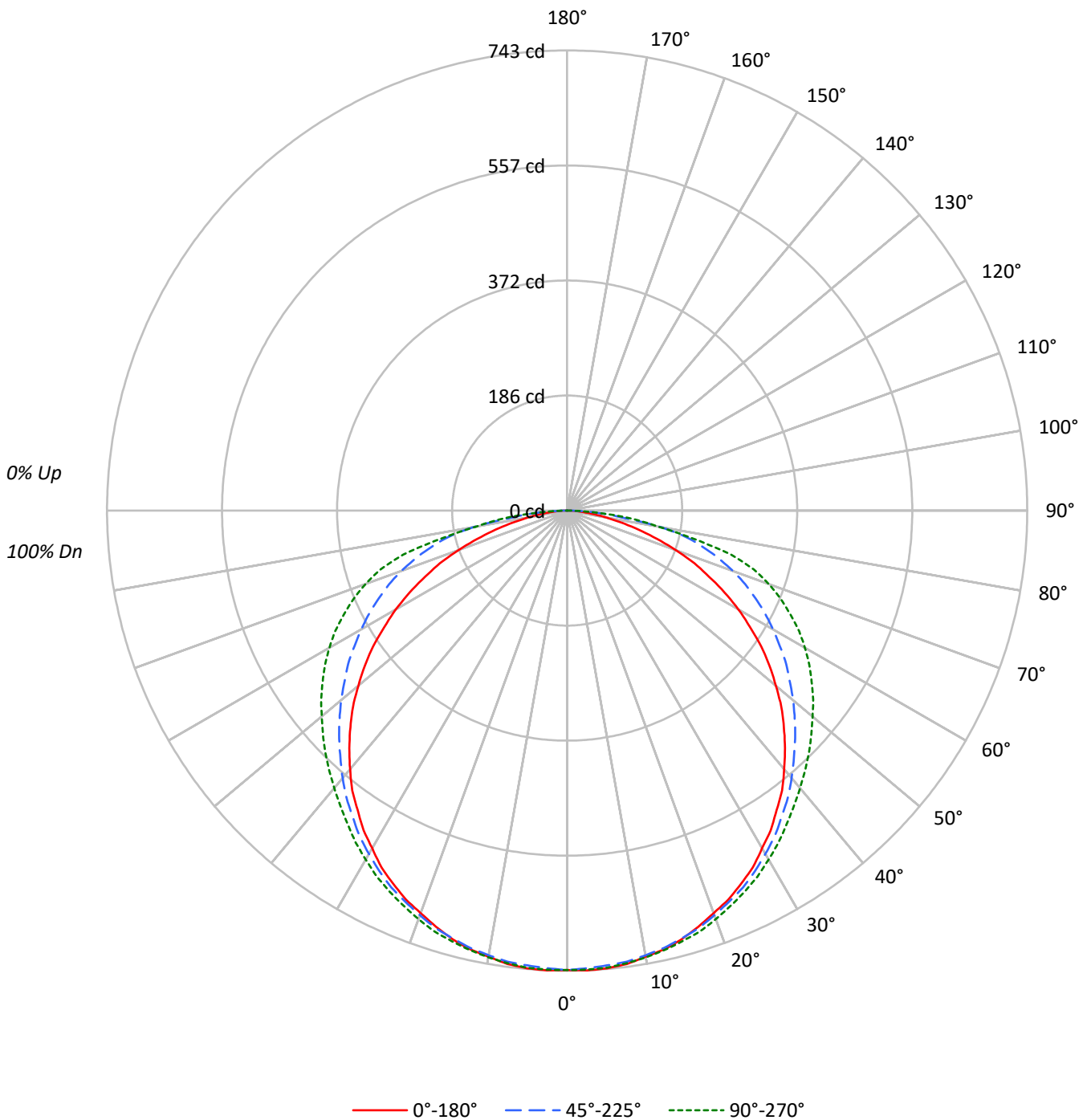
Input Watts (W): 26.784
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	998	998	998
5°	1002	996	1000
10°	999	996	1001
15°	998	996	1003
20°	990	995	1005
25°	987	997	1008
30°	978	994	1011
35°	969	992	1015
40°	958	991	1028
45°	942	991	1051
50°	921	997	1083
55°	898	1013	1131
60°	860	1033	1193
65°	805	1069	1267
70°	732	1119	1363
75°	621	1180	1423
80°	490	1188	1151
85°	361	903	1011



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.4	3.0
10°-20°	202.5	8.6
20°-30°	309.7	13.1
30°-40°	378.6	16.0
40°-50°	403.5	17.1
50°-60°	385.8	16.4
60°-70°	326.9	13.9
70°-80°	219.7	9.3
80°-90°	62.0	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°	582.6	24.7
0°-40°	961.3	40.7
0°-60°	1750.7	74.2
0°-90°	2359.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2359.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	742	742	742	742	742	
5°	742	741	737	741	741	70
15°	716	716	715	721	720	202
25°	665	667	672	678	679	306
35°	590	594	604	616	618	369
45°	495	503	521	543	552	382
55°	383	397	432	466	482	341
65°	253	278	336	380	398	251
75°	119	163	227	266	274	128
85°	23	48	58	63	66	29
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	741.9	741.9	741.9	741.9	741.9
2.5°	743.1	743.1	739.6	741.9	741.9
5°	741.9	740.7	737.2	740.7	740.7
7.5°	738.4	737.2	734.9	738.4	737.2
10°	731.4	731.4	729.0	732.5	732.5
12.5°	725.5	724.3	723.2	727.9	726.7
15°	716.2	716.2	715.0	720.8	719.7
17.5°	704.5	705.6	706.8	711.5	712.6
20°	691.6	693.9	695.1	702.1	702.1
22.5°	679.9	681.0	683.4	690.4	690.4
25°	664.7	667.0	671.7	677.5	678.7
27.5°	649.5	650.6	656.5	664.7	665.8
30°	629.6	633.1	640.1	649.5	650.6
32.5°	612.0	615.5	623.7	633.1	635.4
35°	589.8	594.5	603.8	615.5	617.9
37.5°	569.9	573.4	585.1	598.0	601.5
40°	545.3	552.3	564.0	579.2	585.1
42.5°	520.7	527.8	541.8	561.7	568.7
45°	495.0	503.2	520.7	543.0	552.3
47.5°	469.2	478.6	498.5	524.2	534.8
50°	440.0	451.7	476.3	505.5	517.2
52.5°	411.9	425.9	452.9	485.6	500.8
55°	382.7	396.7	431.8	465.7	482.1
57.5°	349.9	368.6	407.2	445.8	463.4
60°	319.5	337.0	383.8	425.9	443.5
62.5°	286.7	310.1	360.4	404.9	422.4
65°	252.8	278.5	335.8	380.3	397.9
67.5°	222.3	250.4	311.3	355.7	373.3
70°	186.1	221.2	284.4	328.8	346.4
72.5°	152.1	190.7	256.3	299.6	316.0
75°	119.4	162.7	227.0	265.6	273.8
77.5°	88.9	134.6	196.6	213.0	207.1
80°	63.2	107.7	153.3	145.1	148.6
82.5°	41.0	81.9	94.8	107.7	111.2
85°	23.4	48.0	58.5	63.2	65.5
87.5°	10.5	17.6	23.4	23.4	22.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)