

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: P276873

Luminaire Tested: **24CZ2-45-RDP-UNV-L93050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276873
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: 24CZ2-45-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: 2450.9 lumens
Efficiency: N/A
Efficacy: 68.8 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

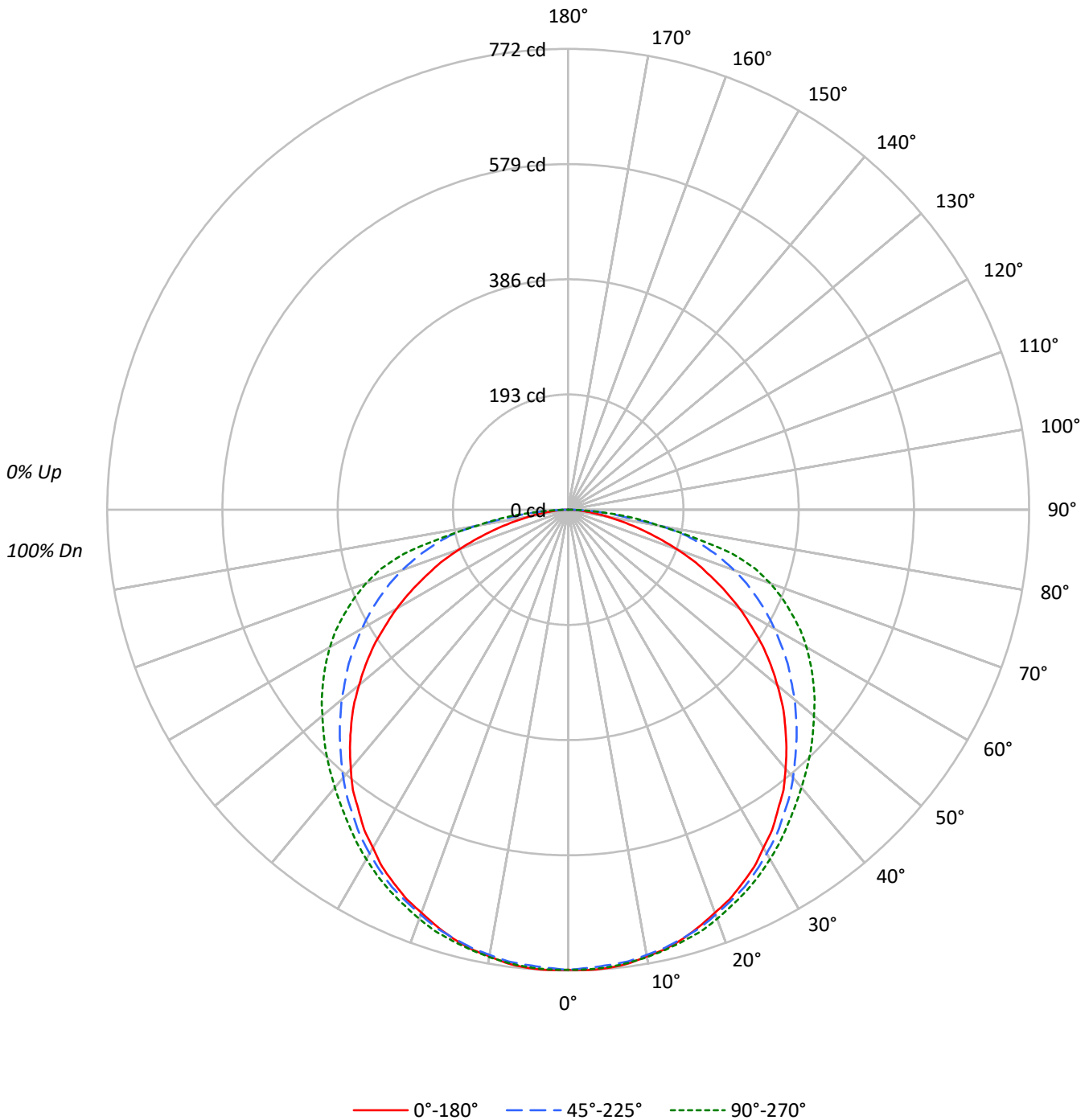
Input Watts (W): 35.632392
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1037	1037	1037
5°	1041	1034	1039
10°	1038	1035	1040
15°	1036	1035	1042
20°	1029	1034	1044
25°	1025	1036	1047
30°	1016	1033	1050
35°	1006	1030	1054
40°	995	1029	1068
45°	978	1029	1092
50°	957	1036	1125
55°	932	1052	1175
60°	893	1073	1240
65°	836	1111	1316
70°	760	1162	1415
75°	645	1226	1479
80°	508	1234	1196
85°	375	939	1051



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.1	3.0
10°-20°	210.4	8.6
20°-30°	321.8	13.1
30°-40°	393.4	16.0
40°-50°	419.2	17.1
50°-60°	400.8	16.4
60°-70°	339.6	13.9
70°-80°	228.2	9.3
80°-90°	64.4	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°	605.3	24.7
0°-40°	998.7	40.7
0°-60°	1818.8	74.2
0°-90°	2450.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2450.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	771	771	771	771	771	
5°	771	770	766	770	770	73
15°	744	744	743	749	748	210
25°	690	693	698	704	705	318
35°	613	618	627	640	642	384
45°	514	523	541	564	574	397
55°	398	412	449	484	501	354
65°	263	289	349	395	413	261
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°	770.8	770.8	770.8	770.8	770.8
2.5°	772.0	772.0	768.3	770.8	770.8
5°	770.8	769.5	765.9	769.5	769.5
7.5°	767.1	765.9	763.5	767.1	765.9
10°	759.8	759.8	757.4	761.0	761.0
12.5°	753.7	752.5	751.3	756.2	754.9
15°	744.0	744.0	742.8	748.9	747.7
17.5°	731.8	733.1	734.3	739.1	740.4
20°	718.5	720.9	722.1	729.4	729.4
22.5°	706.3	707.5	710.0	717.3	717.3
25°	690.5	692.9	697.8	703.9	705.1
27.5°	674.7	675.9	682.0	690.5	691.7
30°	654.0	657.7	665.0	674.7	675.9
32.5°	635.8	639.5	648.0	657.7	660.1
35°	612.7	617.6	627.3	639.5	641.9
37.5°	592.0	595.7	607.8	621.2	624.9
40°	566.5	573.8	586.0	601.8	607.8
42.5°	541.0	548.3	562.9	583.5	590.8
45°	514.2	522.7	541.0	564.1	573.8
47.5°	487.5	497.2	517.9	544.6	555.6
50°	457.1	469.3	494.8	525.2	537.3
52.5°	427.9	442.5	470.5	504.5	520.3
55°	397.5	412.1	448.6	483.8	500.9
57.5°	363.5	382.9	423.1	463.2	481.4
60°	331.9	350.1	398.7	442.5	460.7
62.5°	297.8	322.2	374.4	420.6	438.9
65°	262.6	289.3	348.9	395.1	413.3
67.5°	231.0	260.2	323.4	369.6	387.8
70°	193.3	229.8	295.4	341.6	359.8
72.5°	158.0	198.2	266.2	311.2	328.2
75°	124.0	169.0	235.8	276.0	284.5
77.5°	92.4	139.8	204.2	221.3	215.2
80°	65.6	111.8	159.3	150.7	154.4
82.5°	42.5	85.1	98.5	111.8	115.5
85°	24.3	49.8	60.8	65.6	68.1
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)