

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: P276872

Luminaire Tested: **24CZ2-45-RDP-UNV-L93050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276872
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-3000K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2243.4 lumens
Efficiency: N/A
Efficacy: 62.7 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

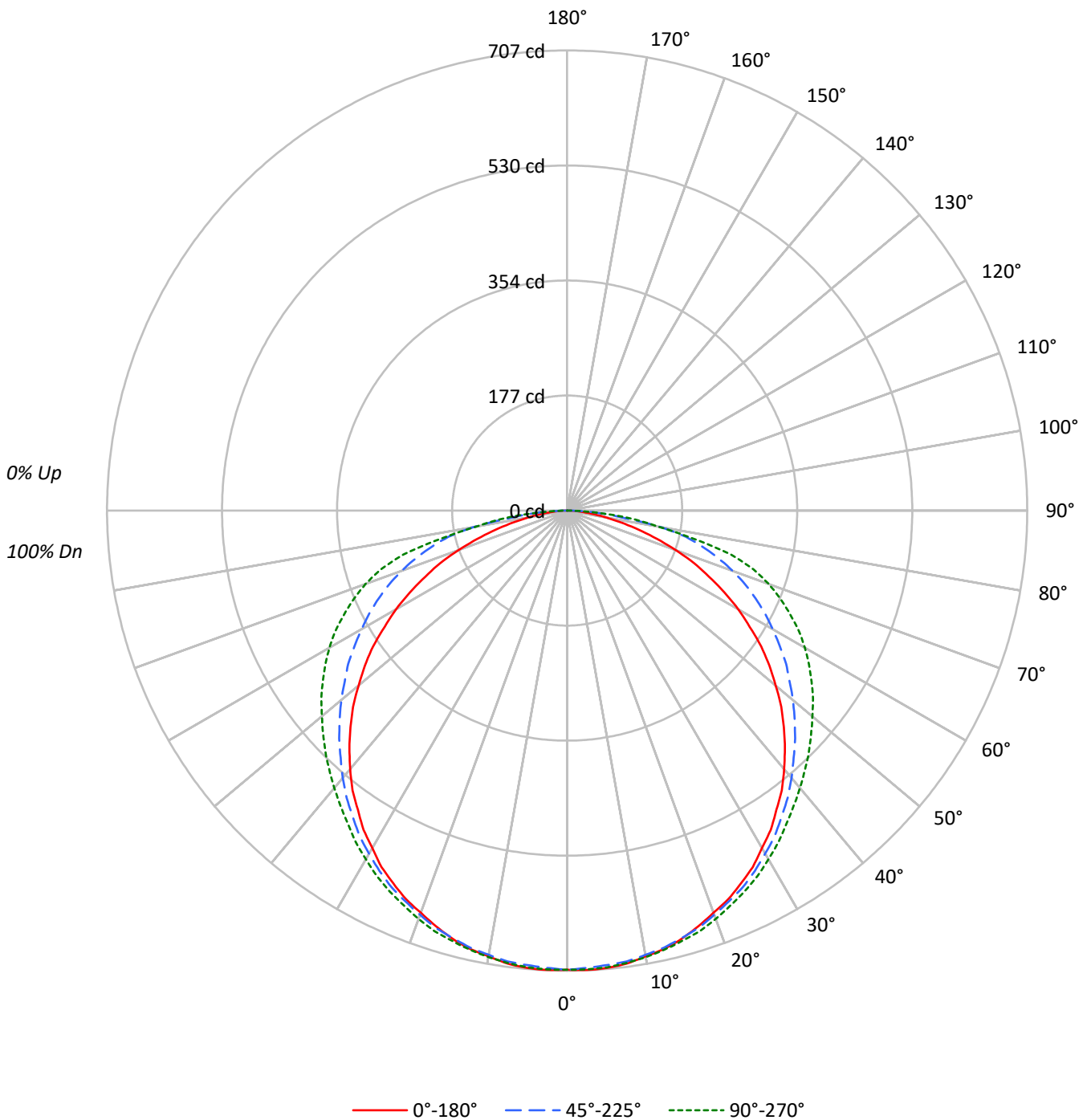
Input Watts (W): 35.772264
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	949	949	949
5°	953	947	951
10°	950	947	952
15°	949	947	953
20°	942	946	956
25°	938	948	958
30°	930	946	961
35°	921	943	965
40°	911	942	977
45°	896	942	999
50°	876	948	1029
55°	854	963	1075
60°	818	982	1135
65°	765	1017	1204
70°	696	1064	1296
75°	590	1122	1354
80°	466	1130	1095
85°	344	858	962



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.9	3.0
10°-20°	192.6	8.6
20°-30°	294.5	13.1
30°-40°	360.1	16.0
40°-50°	383.7	17.1
50°-60°	366.9	16.4
60°-70°	310.8	13.9
70°-80°	208.9	9.3
80°-90°	58.9	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°	554.0	24.7
0°-40°	914.1	40.7
0°-60°	1664.7	74.2
0°-90°	2243.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2243.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	706	706	706	706	706	
5°	706	704	701	704	704	67
15°	681	681	680	685	684	192
25°	632	634	639	644	645	291
35°	561	565	574	585	588	351
45°	471	478	495	516	525	363
55°	364	377	411	443	458	324
65°	240	265	319	362	378	239
75°	114	155	216	253	260	122
85°	22	46	56	60	62	28
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	705.5	705.5	705.5	705.5	705.5
2.5°	706.6	706.6	703.2	705.5	705.5
5°	705.5	704.4	701.0	704.4	704.4
7.5°	702.1	701.0	698.8	702.1	701.0
10°	695.4	695.4	693.2	696.6	696.6
12.5°	689.9	688.8	687.7	692.1	691.0
15°	681.0	681.0	679.9	685.4	684.3
17.5°	669.9	671.0	672.1	676.5	677.6
20°	657.6	659.8	661.0	667.6	667.6
22.5°	646.5	647.6	649.8	656.5	656.5
25°	632.0	634.2	638.7	644.3	645.4
27.5°	617.6	618.7	624.2	632.0	633.1
30°	598.6	602.0	608.7	617.6	618.7
32.5°	582.0	585.3	593.1	602.0	604.2
35°	560.8	565.3	574.2	585.3	587.5
37.5°	541.9	545.2	556.4	568.6	571.9
40°	518.5	525.2	536.3	550.8	556.4
42.5°	495.2	501.8	515.2	534.1	540.8
45°	470.7	478.5	495.2	516.3	525.2
47.5°	446.2	455.1	474.0	498.5	508.5
50°	418.4	429.5	452.9	480.7	491.8
52.5°	391.7	405.0	430.6	461.8	476.2
55°	363.9	377.2	410.6	442.9	458.4
57.5°	332.7	350.5	387.2	423.9	440.6
60°	303.8	320.5	365.0	405.0	421.7
62.5°	272.6	294.9	342.7	385.0	401.7
65°	240.3	264.8	319.4	361.6	378.3
67.5°	211.4	238.1	296.0	338.3	355.0
70°	176.9	210.3	270.4	312.7	329.4
72.5°	144.7	181.4	243.7	284.9	300.4
75°	113.5	154.7	215.9	252.6	260.4
77.5°	84.6	128.0	186.9	202.5	197.0
80°	60.1	102.4	145.8	138.0	141.3
82.5°	38.9	77.9	90.1	102.4	105.7
85°	22.3	45.6	55.6	60.1	62.3
87.5°	10.0	16.7	22.3	22.3	21.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)