

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: P277134

Luminaire Tested: **24CZ2-45-RDP-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277134
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-L92765-W2A1-U-2700K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2259.3 lumens
Efficiency: N/A
Efficacy: 64.8 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

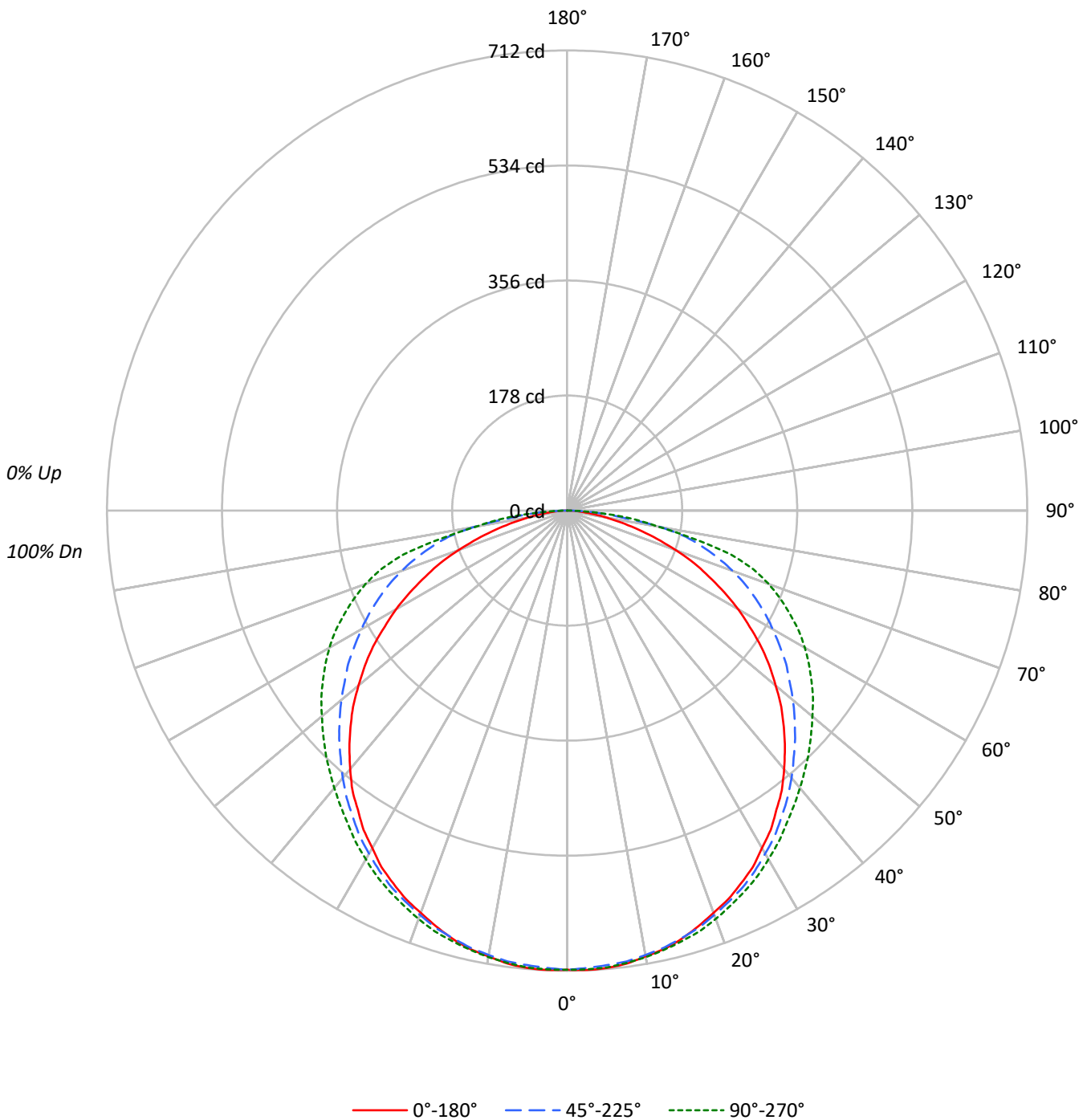
Input Watts (W): 34.875
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	956	956	956
5°	960	954	958
10°	957	954	958
15°	955	954	960
20°	948	953	963
25°	945	955	965
30°	937	952	968
35°	928	950	972
40°	917	949	984
45°	902	949	1006
50°	882	955	1037
55°	859	970	1083
60°	823	989	1143
65°	771	1024	1213
70°	701	1071	1305
75°	594	1130	1363
80°	469	1137	1103
85°	346	865	969



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.4	3.0
10°-20°	194.0	8.6
20°-30°	296.6	13.1
30°-40°	362.6	16.0
40°-50°	386.5	17.1
50°-60°	369.5	16.4
60°-70°	313.0	13.9
70°-80°	210.4	9.3
80°-90°	59.3	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°	558.0	24.7
0°-40°	920.6	40.7
0°-60°	1676.6	74.2
0°-90°	2259.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2259.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	710	710	710	710	710	
5°	710	709	706	709	709	68
15°	686	686	685	690	689	193
25°	636	639	643	649	650	293
35°	565	569	578	590	592	354
45°	474	482	499	520	529	366
55°	366	380	414	446	462	326
65°	242	267	322	364	381	240
75°	114	156	217	254	262	122
85°	22	46	56	60	63	28
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	710.5	710.5	710.5	710.5	710.5
2.5°	711.6	711.6	708.2	710.5	710.5
5°	710.5	709.4	706.0	709.4	709.4
7.5°	707.1	706.0	703.8	707.1	706.0
10°	700.4	700.4	698.2	701.5	701.5
12.5°	694.8	693.7	692.6	697.0	695.9
15°	685.8	685.8	684.7	690.3	689.2
17.5°	674.6	675.7	676.9	681.4	682.5
20°	662.3	664.5	665.7	672.4	672.4
22.5°	651.1	652.2	654.5	661.2	661.2
25°	636.5	638.8	643.2	648.9	650.0
27.5°	622.0	623.1	628.7	636.5	637.6
30°	602.9	606.3	613.0	622.0	623.1
32.5°	586.1	589.5	597.3	606.3	608.5
35°	564.8	569.3	578.3	589.5	591.7
37.5°	545.8	549.1	560.3	572.6	576.0
40°	522.2	528.9	540.1	554.7	560.3
42.5°	498.7	505.4	518.9	537.9	544.6
45°	474.0	481.9	498.7	520.0	528.9
47.5°	449.4	458.3	477.4	502.0	512.1
50°	421.4	432.6	456.1	484.1	495.3
52.5°	394.5	407.9	433.7	465.1	479.6
55°	366.4	379.9	413.5	446.0	461.7
57.5°	335.1	353.0	390.0	427.0	443.8
60°	305.9	322.7	367.6	407.9	424.7
62.5°	274.6	297.0	345.2	387.7	404.6
65°	242.1	266.7	321.6	364.2	381.0
67.5°	212.9	239.8	298.1	340.7	357.5
70°	178.2	211.8	272.3	314.9	331.7
72.5°	145.7	182.7	245.4	286.9	302.6
75°	114.3	155.8	217.4	254.4	262.2
77.5°	85.2	128.9	188.3	204.0	198.4
80°	60.5	103.1	146.8	139.0	142.3
82.5°	39.2	78.4	90.8	103.1	106.5
85°	22.4	45.9	56.0	60.5	62.8
87.5°	10.1	16.8	22.4	22.4	21.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)