

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: P275837

Luminaire Tested: **14CZ2-44-RDP-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275837
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-43)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ2-44-RDP-UNV-L82765-W2A1-U-6500K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2884.0 lumens
Efficiency: N/A
Efficacy: 77.5 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.28 / 1.4
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

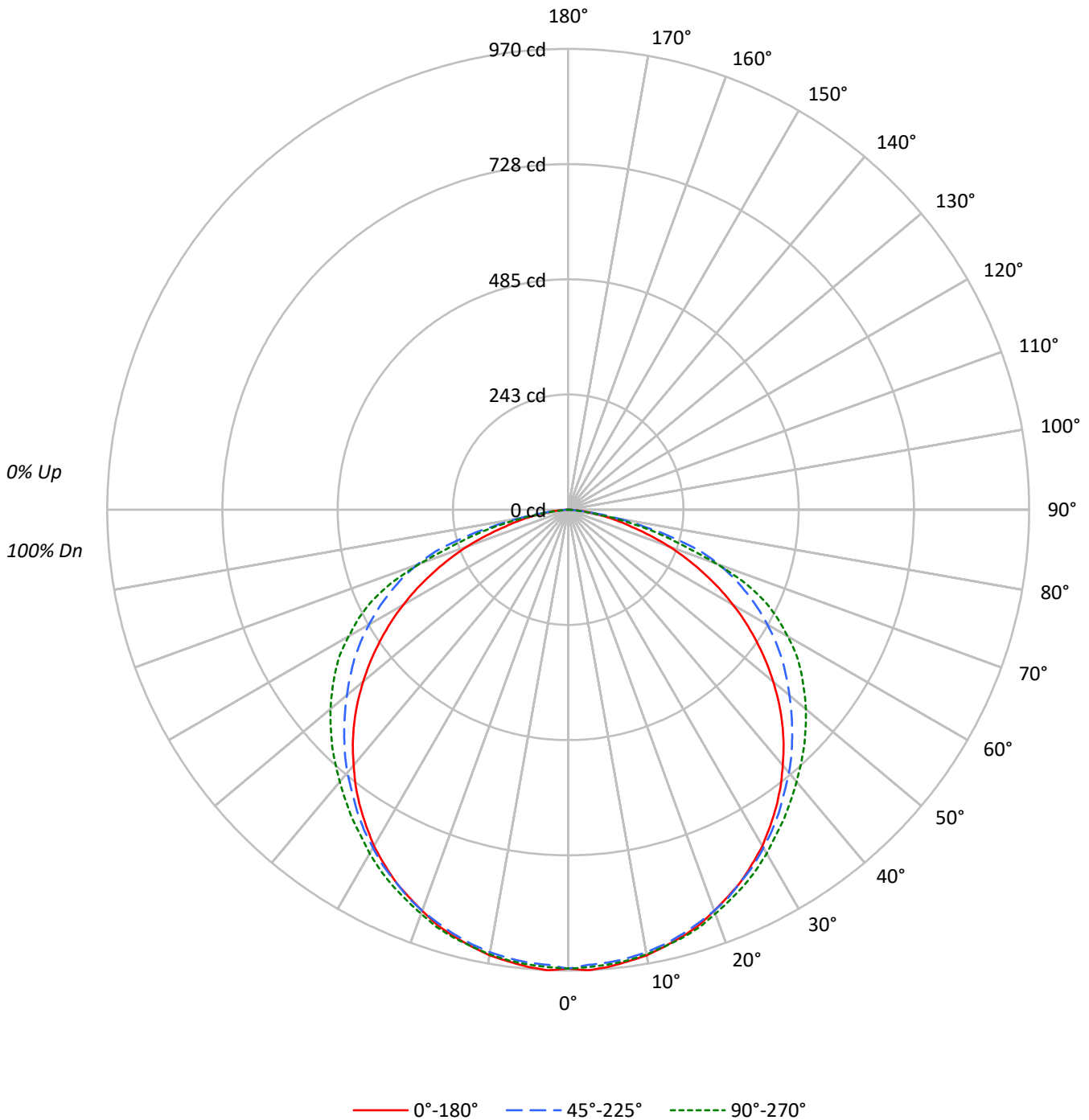
Input Watts (W): 37.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	104	100	96	106	102	98	94	97	94	91	93	91	88	90	88	86	84
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60	58
4	82	70	61	54	80	68	60	53	66	58	53	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37
7	64	50	42	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	41	35	31	29
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26
10	52	39	31	25	51	38	31	25	37	30	25	36	30	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2599	2599	2599
5°	2609	2585	2597
10°	2602	2584	2596
15°	2591	2578	2597
20°	2573	2573	2592
25°	2561	2561	2594
30°	2540	2554	2596
35°	2508	2544	2604
40°	2468	2539	2626
45°	2425	2536	2673
50°	2357	2545	2734
55°	2271	2578	2810
60°	2157	2605	2872
65°	1993	2638	2911
70°	1772	2657	2604
75°	1428	2388	2084
80°	1117	1675	1361
85°	766	488	349



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.4	3.2
10°-20°	262.3	9.1
20°-30°	399.4	13.8
30°-40°	486.5	16.9
40°-50°	516.1	17.9
50°-60°	487.1	16.9
60°-70°	393.3	13.6
70°-80°	213.3	7.4
80°-90°	34.5	1.2
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°	753.1	26.1
0°-40°	1239.6	43.0
0°-60°	2242.8	77.8
0°-90°	2884.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2884.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	966	966	966	966	966	
5°	966	964	957	964	961	92
15°	930	928	925	932	932	262
25°	862	860	862	871	874	397
35°	763	768	774	790	793	477
45°	637	646	666	691	702	491
55°	484	504	549	585	599	432
65°	313	351	414	448	457	310
75°	137	200	230	207	200	150
85°	25	27	16	14	11	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	965.9	965.9	965.9	965.9	965.9
2.5°	970.4	965.9	959.2	965.9	963.7
5°	965.9	963.7	956.9	963.7	961.4
7.5°	959.2	959.2	952.4	956.9	956.9
10°	952.4	950.2	945.7	952.4	950.2
12.5°	941.2	938.9	936.7	943.4	941.2
15°	929.9	927.6	925.4	932.2	932.2
17.5°	916.4	914.1	911.9	920.9	920.9
20°	898.4	898.4	898.4	907.4	905.1
22.5°	880.4	880.4	882.6	891.6	889.4
25°	862.4	860.1	862.4	871.4	873.6
27.5°	839.8	842.1	844.3	853.3	855.6
30°	817.3	819.6	821.8	833.1	835.3
32.5°	790.3	794.8	799.3	812.8	812.8
35°	763.3	767.8	774.5	790.3	792.6
37.5°	734.0	738.5	747.5	765.5	770.0
40°	702.5	709.2	722.8	740.8	747.5
42.5°	671.0	680.0	695.7	716.0	725.0
45°	637.2	646.2	666.5	691.2	702.5
47.5°	601.2	612.4	637.2	668.7	677.7
50°	562.9	578.7	607.9	641.7	653.0
52.5°	524.6	542.6	578.7	614.7	625.9
55°	484.1	504.4	549.4	585.4	598.9
57.5°	443.6	466.1	517.9	556.1	569.6
60°	400.8	427.8	484.1	522.4	533.6
62.5°	358.0	389.5	450.3	488.6	497.6
65°	313.0	351.2	414.3	448.1	457.1
67.5°	270.2	315.2	378.3	403.0	403.0
70°	225.2	274.7	337.7	344.5	331.0
72.5°	180.1	236.4	292.7	267.9	256.7
75°	137.3	200.4	229.7	207.1	200.4
77.5°	103.6	162.1	162.1	148.6	144.1
80°	72.1	123.8	108.1	94.6	87.8
82.5°	47.3	69.8	56.3	45.0	38.3
85°	24.8	27.0	15.8	13.5	11.3
87.5°	9.0	4.5	2.3	4.5	2.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)