

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: P276983

Luminaire Tested: **24CZ2-35-RDP-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276983
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-3500K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2210.3 lumens
Efficiency: N/A
Efficacy: 84.6 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

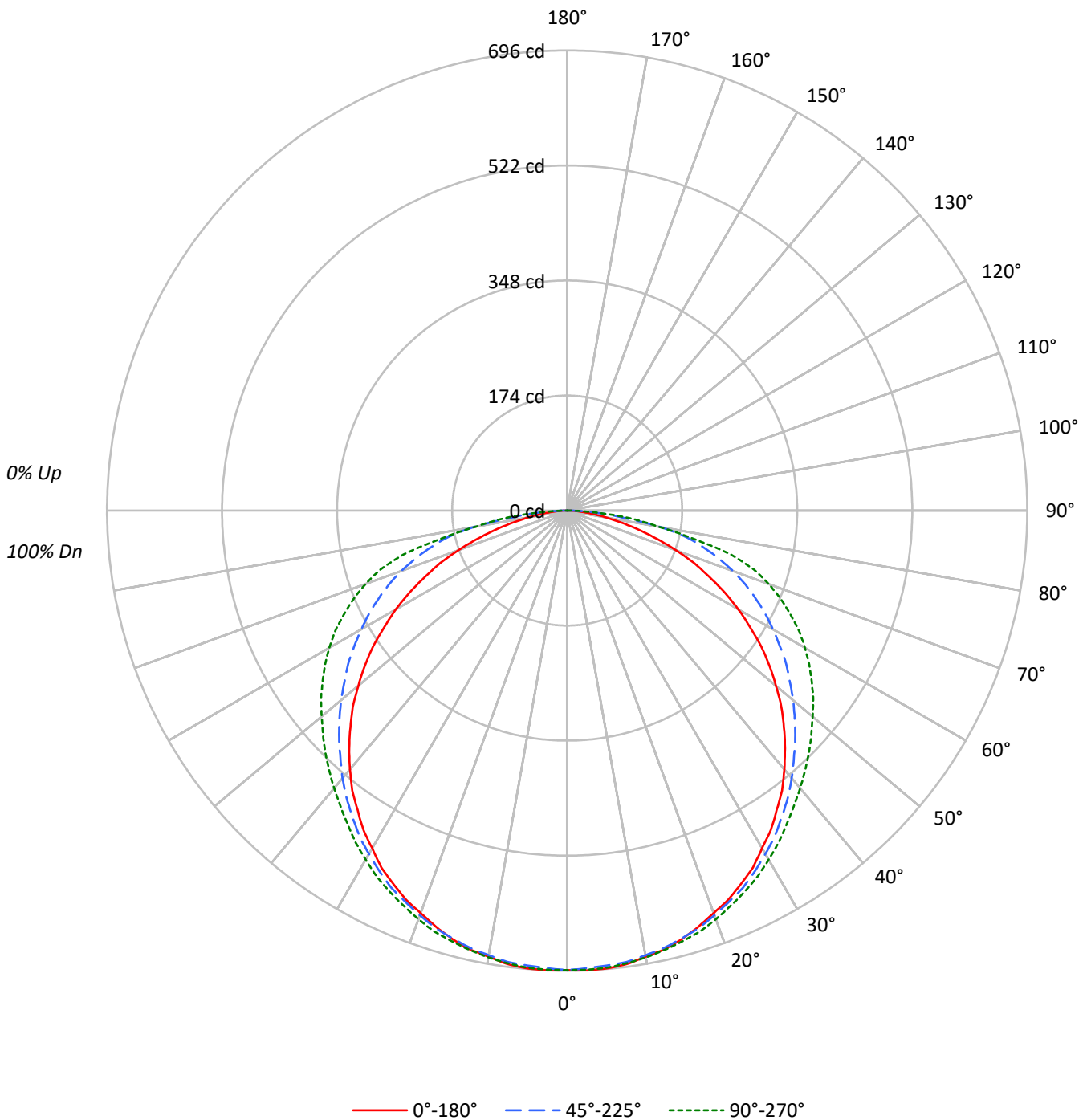
Input Watts (W): 26.133
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	935	935	935
5°	939	933	937
10°	936	933	938
15°	935	933	939
20°	928	932	942
25°	924	934	944
30°	916	932	947
35°	908	929	951
40°	897	928	963
45°	883	928	985
50°	863	934	1014
55°	841	949	1060
60°	805	968	1118
65°	754	1002	1187
70°	686	1048	1277
75°	581	1106	1333
80°	459	1113	1079
85°	338	846	948



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.9	3.0
10°-20°	189.8	8.6
20°-30°	290.2	13.1
30°-40°	354.7	16.0
40°-50°	378.1	17.1
50°-60°	361.5	16.4
60°-70°	306.2	13.9
70°-80°	205.8	9.3
80°-90°	58.1	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°	545.9	24.7
0°-40°	900.6	40.7
0°-60°	1640.2	74.2
0°-90°	2210.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2210.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	695	695	695	695	695	
5°	695	694	691	694	694	66
15°	671	671	670	675	674	189
25°	623	625	629	635	636	287
35°	553	557	566	577	579	346
45°	464	471	488	509	518	358
55°	358	372	405	436	452	319
65°	237	261	315	356	373	235
75°	112	152	213	249	256	120
85°	22	45	55	59	61	27
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	695.1	695.1	695.1	695.1	695.1
2.5°	696.2	696.2	692.9	695.1	695.1
5°	695.1	694.0	690.7	694.0	694.0
7.5°	691.8	690.7	688.5	691.8	690.7
10°	685.2	685.2	683.0	686.3	686.3
12.5°	679.7	678.6	677.5	681.9	680.8
15°	671.0	671.0	669.9	675.3	674.3
17.5°	660.0	661.1	662.2	666.6	667.7
20°	647.9	650.1	651.2	657.8	657.8
22.5°	637.0	638.1	640.3	646.8	646.8
25°	622.7	624.9	629.3	634.8	635.9
27.5°	608.5	609.6	615.0	622.7	623.8
30°	589.8	593.1	599.7	608.5	609.6
32.5°	573.4	576.7	584.4	593.1	595.3
35°	552.6	556.9	565.7	576.7	578.9
37.5°	533.9	537.2	548.2	560.2	563.5
40°	510.9	517.5	528.4	542.7	548.2
42.5°	487.9	494.5	507.6	526.2	532.8
45°	463.8	471.4	487.9	508.7	517.5
47.5°	439.6	448.4	467.0	491.2	501.0
50°	412.2	423.2	446.2	473.6	484.6
52.5°	385.9	399.1	424.3	455.0	469.2
55°	358.5	371.7	404.6	436.3	451.7
57.5°	327.8	345.3	381.5	417.7	434.2
60°	299.3	315.7	359.6	399.1	415.5
62.5°	268.6	290.5	337.7	379.3	395.8
65°	236.8	260.9	314.7	356.3	372.8
67.5°	208.3	234.6	291.6	333.3	349.7
70°	174.3	207.2	266.4	308.1	324.5
72.5°	142.5	178.7	240.1	280.7	296.0
75°	111.8	152.4	212.7	248.9	256.5
77.5°	83.3	126.1	184.2	199.5	194.1
80°	59.2	100.9	143.6	135.9	139.2
82.5°	38.4	76.7	88.8	100.9	104.2
85°	21.9	45.0	54.8	59.2	61.4
87.5°	9.9	16.4	21.9	21.9	20.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)