

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: P276814

Luminaire Tested: **24CZ2-35HE-RDP-UNV-L93050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276814
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: 24CZ2-35HE-RDP-UNV-L93050-W2A1-U-4000K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (336) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2055.4 lumens
Efficiency: N/A
Efficacy: 82.8 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

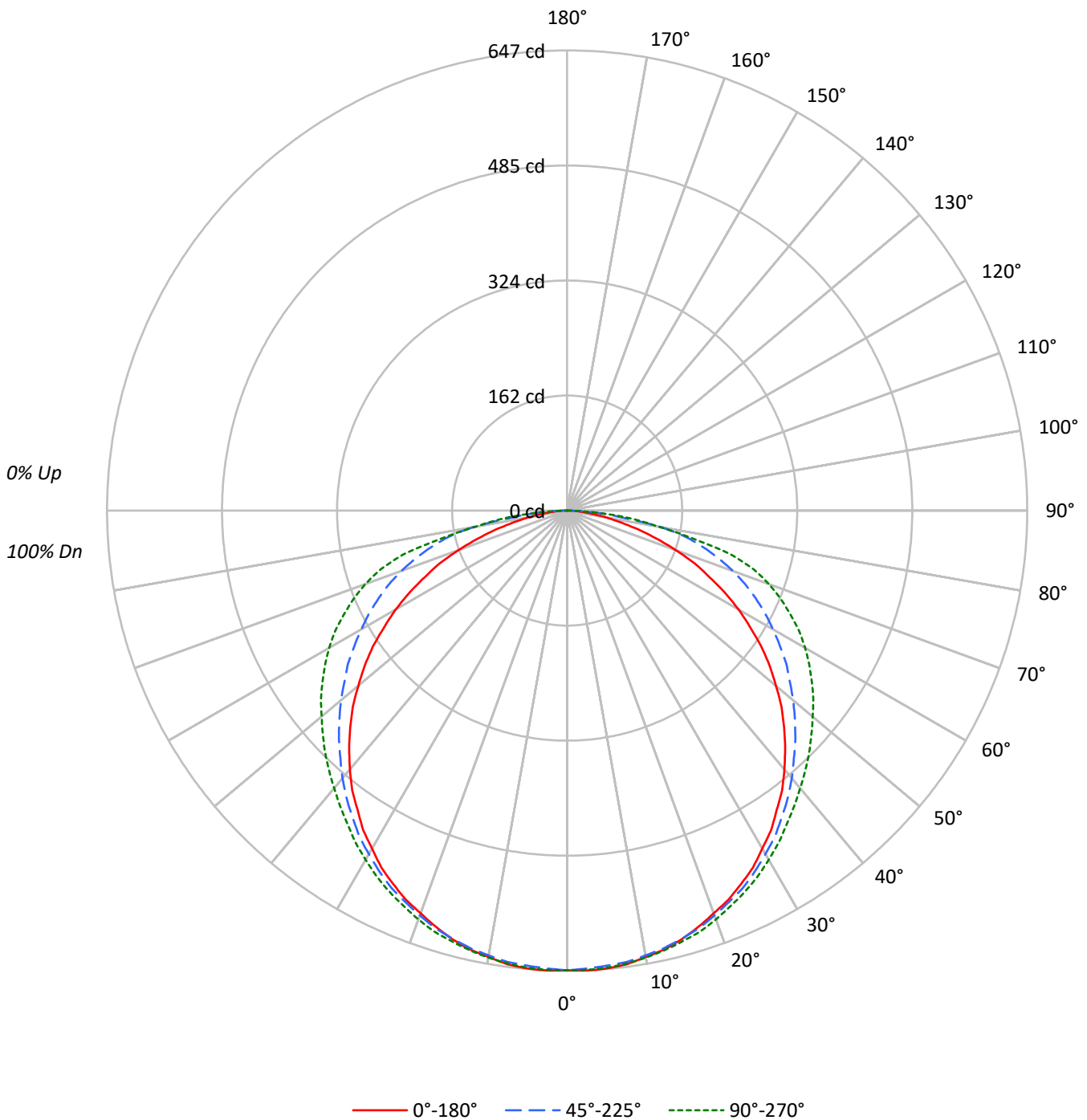
Input Watts (W): 24.80868
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	870	870	870
5°	873	868	872
10°	871	868	872
15°	869	868	873
20°	863	867	876
25°	860	869	878
30°	852	866	881
35°	844	864	884
40°	834	863	895
45°	820	863	916
50°	802	868	943
55°	782	882	985
60°	749	900	1040
65°	701	932	1103
70°	638	974	1187
75°	541	1028	1240
80°	427	1035	1003
85°	315	787	881



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.3	3.0
10°-20°	176.5	8.6
20°-30°	269.8	13.1
30°-40°	329.9	16.0
40°-50°	351.6	17.1
50°-60°	336.2	16.4
60°-70°	284.8	13.9
70°-80°	191.4	9.3
80°-90°	54.0	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°	507.6	24.7
0°-40°	837.5	40.7
0°-60°	1525.2	74.2
0°-90°	2055.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2055.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	646	646	646	646	646	
5°	646	645	642	645	645	61
15°	624	624	623	628	627	176
25°	579	581	585	590	591	267
35°	514	518	526	536	538	322
45°	431	438	454	473	481	333
55°	333	346	376	406	420	297
65°	220	243	293	331	347	219
75°	104	142	198	231	239	111
85°	20	42	51	55	57	25
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	646.3	646.3	646.3	646.3	646.3
2.5°	647.4	647.4	644.3	646.3	646.3
5°	646.3	645.3	642.3	645.3	645.3
7.5°	643.3	642.3	640.2	643.3	642.3
10°	637.2	637.2	635.1	638.2	638.2
12.5°	632.1	631.1	630.0	634.1	633.1
15°	623.9	623.9	622.9	628.0	627.0
17.5°	613.7	614.7	615.8	619.8	620.9
20°	602.5	604.6	605.6	611.7	611.7
22.5°	592.3	593.3	595.4	601.5	601.5
25°	579.1	581.1	585.2	590.3	591.3
27.5°	565.8	566.8	571.9	579.1	580.1
30°	548.5	551.5	557.7	565.8	566.8
32.5°	533.2	536.2	543.4	551.5	553.6
35°	513.8	517.9	526.1	536.2	538.3
37.5°	496.5	499.5	509.7	521.0	524.0
40°	475.1	481.2	491.4	504.6	509.7
42.5°	453.7	459.8	472.0	489.3	495.5
45°	431.2	438.4	453.7	473.0	481.2
47.5°	408.8	417.0	434.3	456.7	465.9
50°	383.3	393.5	414.9	440.4	450.6
52.5°	358.9	371.1	394.5	423.1	436.3
55°	333.4	345.6	376.2	405.8	420.0
57.5°	304.8	321.1	354.8	388.4	403.7
60°	278.3	293.6	334.4	371.1	386.4
62.5°	249.8	270.2	314.0	352.7	368.0
65°	220.2	242.6	292.6	331.3	346.6
67.5°	193.7	218.2	271.2	309.9	325.2
70°	162.1	192.7	247.7	286.5	301.8
72.5°	132.5	166.2	223.3	261.0	275.3
75°	104.0	141.7	197.8	231.4	238.6
77.5°	77.5	117.2	171.3	185.5	180.4
80°	55.1	93.8	133.6	126.4	129.5
82.5°	35.7	71.4	82.6	93.8	96.9
85°	20.4	41.8	51.0	55.1	57.1
87.5°	9.2	15.3	20.4	20.4	19.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)