

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: P263493

Luminaire Tested: **24CZ-LD5-30-RDP-UNV-L83050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263493
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25696)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ-LD5-30-RDP-UNV-L83050-W2A1-U-3500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (336) 80 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2134.0 lumens
Efficiency: N/A
Efficacy: 108.7 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

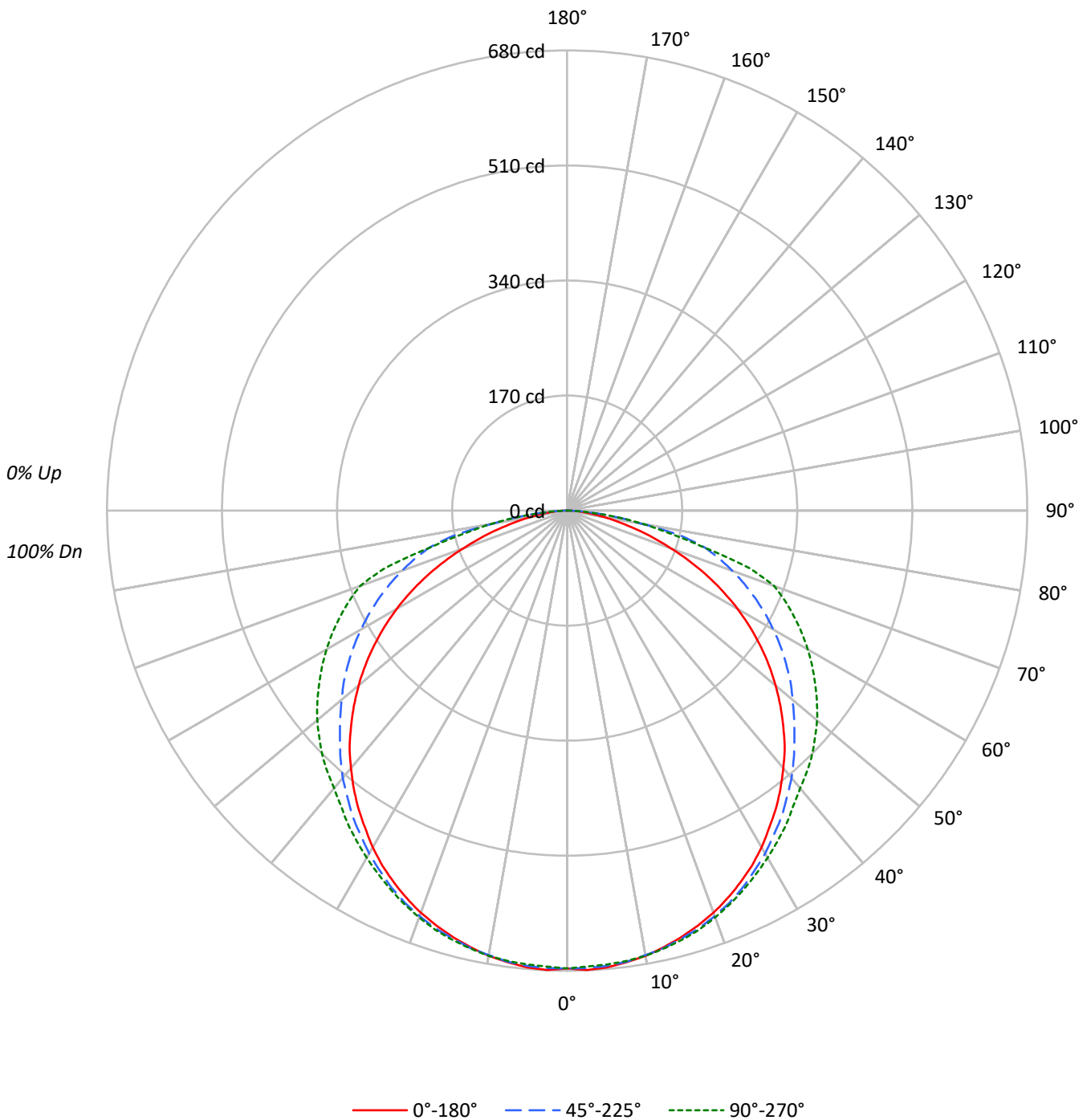
Input Watts (W): 19.623
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	101	97	93	96	93	90		92	90	87		89	87	84	82
2	98	89	82	76	95	87	80	75	83	78	73		80	75	71		77	73	70	67
3	89	78	69	62	86	76	68	61	73	66	60		70	64	59		67	62	58	56
4	81	68	59	52	78	67	58	52	64	57	51		62	56	50		60	54	50	47
5	74	61	51	45	72	60	51	44	57	50	44		55	49	43		54	48	43	41
6	68	55	45	39	66	54	45	38	52	44	38		50	43	38		48	42	37	35
7	63	49	40	34	61	48	40	34	47	39	34		45	38	33		44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30		42	35	30		40	34	29	27
9	55	41	33	27	53	41	32	27	39	32	27		38	32	27		37	31	27	25
10	51	38	30	24	50	37	30	24	36	29	24		35	29	24		35	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	910	910	910
5°	915	912	909
10°	913	911	913
15°	909	912	914
20°	905	913	916
25°	900	912	917
30°	893	909	921
35°	883	908	928
40°	873	906	941
45°	859	903	973
50°	842	910	1009
55°	818	927	1050
60°	783	947	1105
65°	729	976	1177
70°	645	1021	1281
75°	541	1092	1076
80°	432	862	896
85°	341	584	536



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.2	3.0
10°-20°	184.7	8.7
20°-30°	282.1	13.2
30°-40°	344.8	16.2
40°-50°	369.1	17.3
50°-60°	354.0	16.6
60°-70°	298.9	14.0
70°-80°	191.0	9.0
80°-90°	45.2	2.1
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°	530.9	24.9
0°-40°	875.7	41.0
0°-60°	1598.8	74.9
0°-90°	2134.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2134.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	676	676	676	676	676	
5°	678	673	675	674	673	64
15°	652	650	654	656	656	184
25°	606	605	614	617	618	279
35°	538	542	552	560	565	336
45°	452	459	475	497	512	348
55°	349	360	395	431	448	311
65°	229	251	307	350	370	226
75°	104	148	210	214	207	112
85°	22	37	38	37	35	26
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	676.5	676.5	676.5	676.5	676.5
2.5°	679.6	675.4	676.5	676.5	674.4
5°	677.5	673.3	675.4	674.4	673.3
7.5°	673.3	670.2	672.3	672.3	671.2
10°	668.1	664.9	667.0	668.1	668.1
12.5°	660.7	658.6	661.8	661.8	662.8
15°	652.3	650.2	654.4	656.5	656.5
17.5°	642.9	641.8	647.1	648.1	649.2
20°	632.4	631.3	637.6	637.6	639.7
22.5°	619.8	618.7	627.1	627.1	629.2
25°	606.1	605.1	614.5	616.6	617.7
27.5°	591.4	590.4	599.8	603.0	605.1
30°	574.6	574.6	585.1	589.3	592.5
32.5°	555.7	558.8	568.3	574.6	578.8
35°	537.8	542.0	552.5	559.9	565.1
37.5°	517.9	522.1	533.6	543.1	549.4
40°	496.9	502.1	515.8	526.3	535.7
42.5°	475.9	481.1	495.8	511.6	524.2
45°	451.7	459.1	474.8	496.9	511.6
47.5°	427.5	434.9	454.8	482.2	496.9
50°	402.3	410.7	434.9	466.4	482.2
52.5°	376.1	385.5	416.0	449.6	465.4
55°	348.8	360.3	395.0	430.7	447.5
57.5°	320.4	333.0	374.0	411.8	429.6
60°	291.0	306.7	351.9	391.8	410.7
62.5°	260.5	279.4	329.8	370.8	390.8
65°	229.0	251.1	306.7	349.8	369.8
67.5°	196.4	225.8	283.6	328.8	348.8
70°	163.9	198.5	259.5	305.7	325.6
72.5°	133.4	173.3	235.3	278.4	282.6
75°	104.0	148.1	210.1	214.3	206.9
77.5°	77.7	122.9	173.3	154.4	153.4
80°	55.7	98.7	111.3	114.5	115.6
82.5°	36.8	74.6	72.5	74.6	73.5
85°	22.1	36.8	37.8	36.8	34.7
87.5°	10.5	13.7	10.5	9.5	8.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)