

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: P263492

Luminaire Tested: **24CZ-LD5-30-RDP-UNV-L83050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263492
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-3000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (336) 80 CRI LEDS TUNED AT 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2016.0 lumens
Efficiency: N/A
Efficacy: 102.9 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

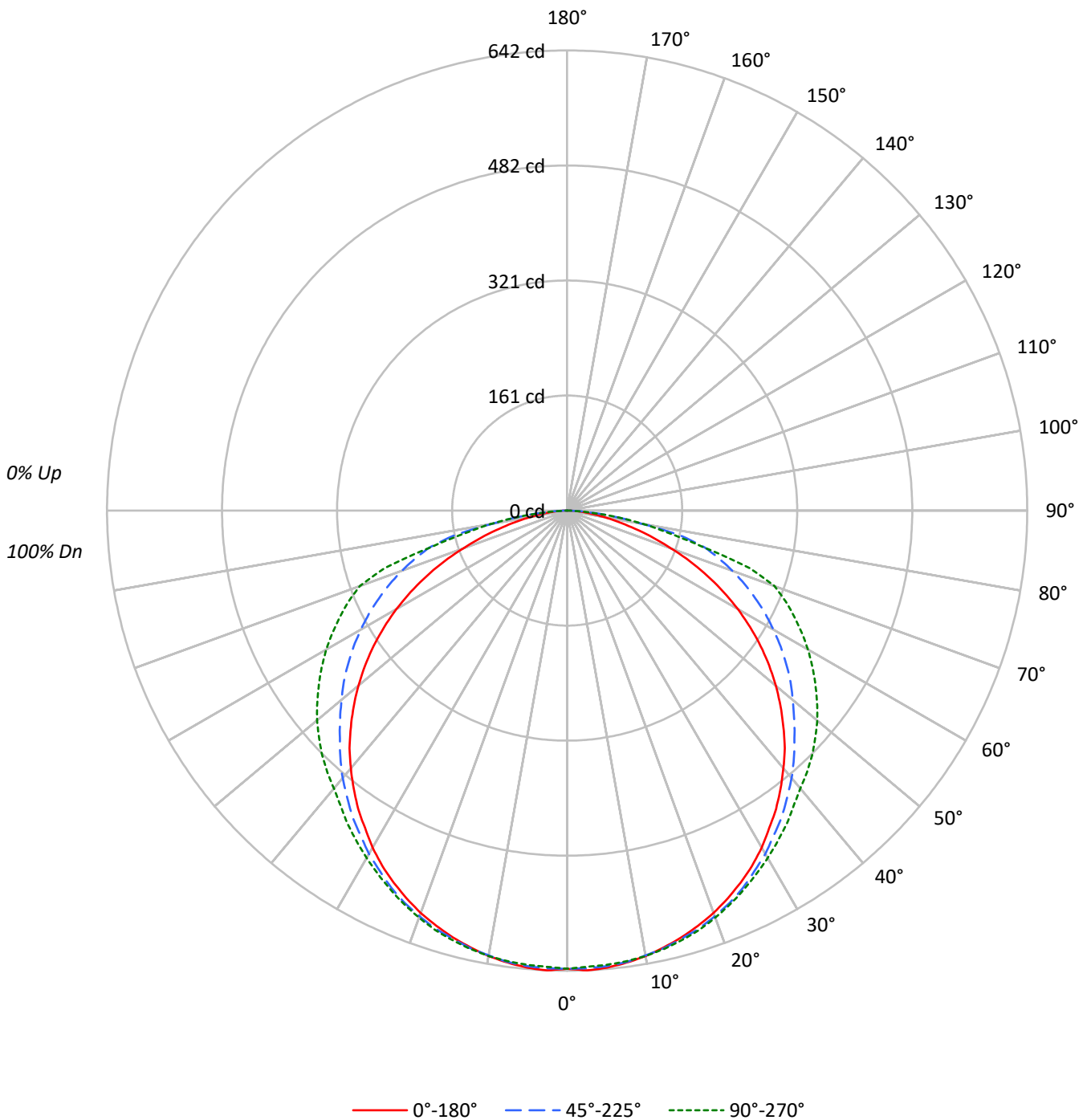
Input Watts (W): 19.583754
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	62	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°	860	860	860
5°	865	862	859
10°	862	861	862
15°	858	861	864
20°	855	863	865
25°	850	862	866
30°	843	859	870
35°	835	857	877
40°	824	856	889
45°	812	854	920
50°	796	860	953
55°	773	875	992
60°	740	894	1044
65°	689	923	1112
70°	609	964	1210
75°	510	1032	1016
80°	408	815	846
85°	321	551	505



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.6	3.0
10°-20°	174.4	8.7
20°-30°	266.4	13.2
30°-40°	325.8	16.2
40°-50°	348.7	17.3
50°-60°	334.5	16.6
60°-70°	282.4	14.0
70°-80°	180.5	9.0
80°-90°	42.7	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°	501.5	24.9
0°-40°	827.3	41.0
0°-60°	1510.4	74.9
0°-90°	2016.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2016.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	639	639	639	639	639	
5°	640	636	638	637	636	61
15°	616	614	618	620	620	174
25°	573	572	580	582	584	264
35°	508	512	522	529	534	318
45°	427	434	449	469	483	329
55°	330	340	373	407	423	294
65°	216	237	290	330	349	213
75°	98	140	198	202	196	106
85°	21	35	36	35	33	25
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	639.1	639.1	639.1	639.1	639.1
2.5°	642.1	638.1	639.1	639.1	637.1
5°	640.1	636.1	638.1	637.1	636.1
7.5°	636.1	633.1	635.1	635.1	634.1
10°	631.1	628.2	630.2	631.1	631.1
12.5°	624.2	622.2	625.2	625.2	626.2
15°	616.3	614.3	618.2	620.2	620.2
17.5°	607.3	606.3	611.3	612.3	613.3
20°	597.4	596.4	602.4	602.4	604.4
22.5°	585.5	584.5	592.4	592.4	594.4
25°	572.6	571.6	580.5	582.5	583.5
27.5°	558.7	557.7	566.6	569.6	571.6
30°	542.8	542.8	552.8	556.7	559.7
32.5°	525.0	527.9	536.9	542.8	546.8
35°	508.1	512.1	522.0	528.9	533.9
37.5°	489.2	493.2	504.1	513.1	519.0
40°	469.4	474.4	487.3	497.2	506.1
42.5°	449.5	454.5	468.4	483.3	495.2
45°	426.7	433.7	448.6	469.4	483.3
47.5°	403.9	410.8	429.7	455.5	469.4
50°	380.1	388.0	410.8	440.6	455.5
52.5°	355.3	364.2	393.0	424.7	439.6
55°	329.5	340.4	373.1	406.9	422.8
57.5°	302.7	314.6	353.3	389.0	405.9
60°	274.9	289.8	332.4	370.2	388.0
62.5°	246.1	264.0	311.6	350.3	369.2
65°	216.3	237.2	289.8	330.5	349.3
67.5°	185.6	213.4	267.9	310.6	329.5
70°	154.8	187.6	245.1	288.8	307.6
72.5°	126.0	163.7	222.3	263.0	266.9
75°	98.2	139.9	198.5	202.4	195.5
77.5°	73.4	116.1	163.7	145.9	144.9
80°	52.6	93.3	105.2	108.2	109.2
82.5°	34.7	70.5	68.5	70.5	69.5
85°	20.8	34.7	35.7	34.7	32.7
87.5°	9.9	12.9	9.9	8.9	7.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)