

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: P263568

Luminaire Tested: **24CZ-LD5-30-RDP-UNV-L93050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263568
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-L93050-W2A1-U-3500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (336) 90 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1813.6 lumens
Efficiency: N/A
Efficacy: 90.7 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

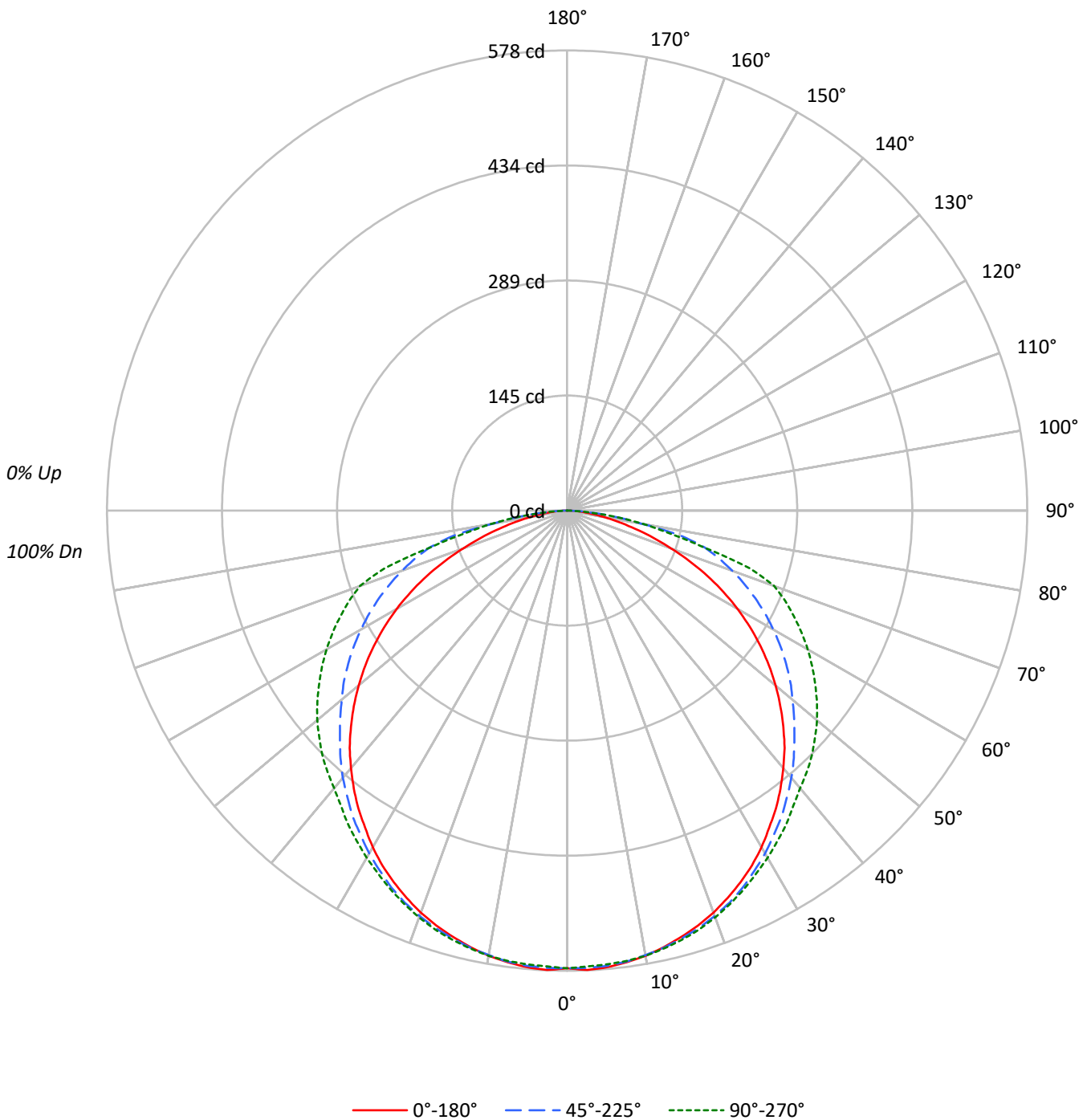
Input Watts (W): 19.995837
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	774	774	774
5°	778	775	773
10°	776	775	776
15°	772	775	777
20°	769	776	778
25°	765	775	779
30°	759	773	782
35°	751	771	789
40°	742	770	800
45°	730	768	827
50°	716	774	858
55°	695	787	892
60°	665	805	939
65°	620	830	1000
70°	548	867	1089
75°	460	928	914
80°	366	733	761
85°	289	496	455



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.5	3.0
10°-20°	156.9	8.7
20°-30°	239.7	13.2
30°-40°	293.1	16.2
40°-50°	313.7	17.3
50°-60°	300.9	16.6
60°-70°	254.0	14.0
70°-80°	162.4	9.0
80°-90°	38.4	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°	451.2	24.9
0°-40°	744.2	41.0
0°-60°	1358.8	74.9
0°-90°	1813.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1813.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	575	575	575	575	575	
5°	576	572	574	573	572	55
15°	554	553	556	558	558	157
25°	515	514	522	524	525	237
35°	457	461	470	476	480	286
45°	384	390	404	422	435	296
55°	296	306	336	366	380	265
65°	195	213	261	297	314	192
75°	88	126	178	182	176	95
85°	19	31	32	31	30	22
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	574.9	574.9	574.9	574.9	574.9
2.5°	577.6	574.0	574.9	574.9	573.1
5°	575.8	572.2	574.0	573.1	572.2
7.5°	572.2	569.6	571.4	571.4	570.5
10°	567.8	565.1	566.9	567.8	567.8
12.5°	561.5	559.8	562.4	562.4	563.3
15°	554.4	552.6	556.2	558.0	558.0
17.5°	546.4	545.5	549.9	550.8	551.7
20°	537.4	536.5	541.9	541.9	543.7
22.5°	526.7	525.8	533.0	533.0	534.8
25°	515.1	514.2	522.3	524.0	524.9
27.5°	502.6	501.7	509.8	512.4	514.2
30°	488.3	488.3	497.3	500.8	503.5
32.5°	472.3	474.9	483.0	488.3	491.9
35°	457.1	460.7	469.6	475.8	480.3
37.5°	440.1	443.7	453.5	461.5	466.9
40°	422.3	426.7	438.3	447.3	455.3
42.5°	404.4	408.9	421.4	434.8	445.5
45°	383.9	390.1	403.5	422.3	434.8
47.5°	363.3	369.6	386.6	409.8	422.3
50°	341.9	349.1	369.6	396.4	409.8
52.5°	319.6	327.6	353.5	382.1	395.5
55°	296.4	306.2	335.7	366.0	380.3
57.5°	272.3	283.0	317.8	350.0	365.1
60°	247.3	260.7	299.1	333.0	349.1
62.5°	221.4	237.5	280.3	315.1	332.1
65°	194.6	213.4	260.7	297.3	314.2
67.5°	166.9	191.9	241.0	279.4	296.4
70°	139.3	168.7	220.5	259.8	276.8
72.5°	113.4	147.3	200.0	236.6	240.1
75°	88.4	125.9	178.5	182.1	175.9
77.5°	66.1	104.5	147.3	131.2	130.3
80°	47.3	83.9	94.6	97.3	98.2
82.5°	31.2	63.4	61.6	63.4	62.5
85°	18.7	31.2	32.1	31.2	29.5
87.5°	8.9	11.6	8.9	8.0	7.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)