

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: P263567

Luminaire Tested: **24CZ-LD5-30-RDP-UNV-L93050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263567
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-3000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (336) 90 CRI LEDS TUNED AT 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1660.0 lumens
Efficiency: N/A
Efficacy: 82.7 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

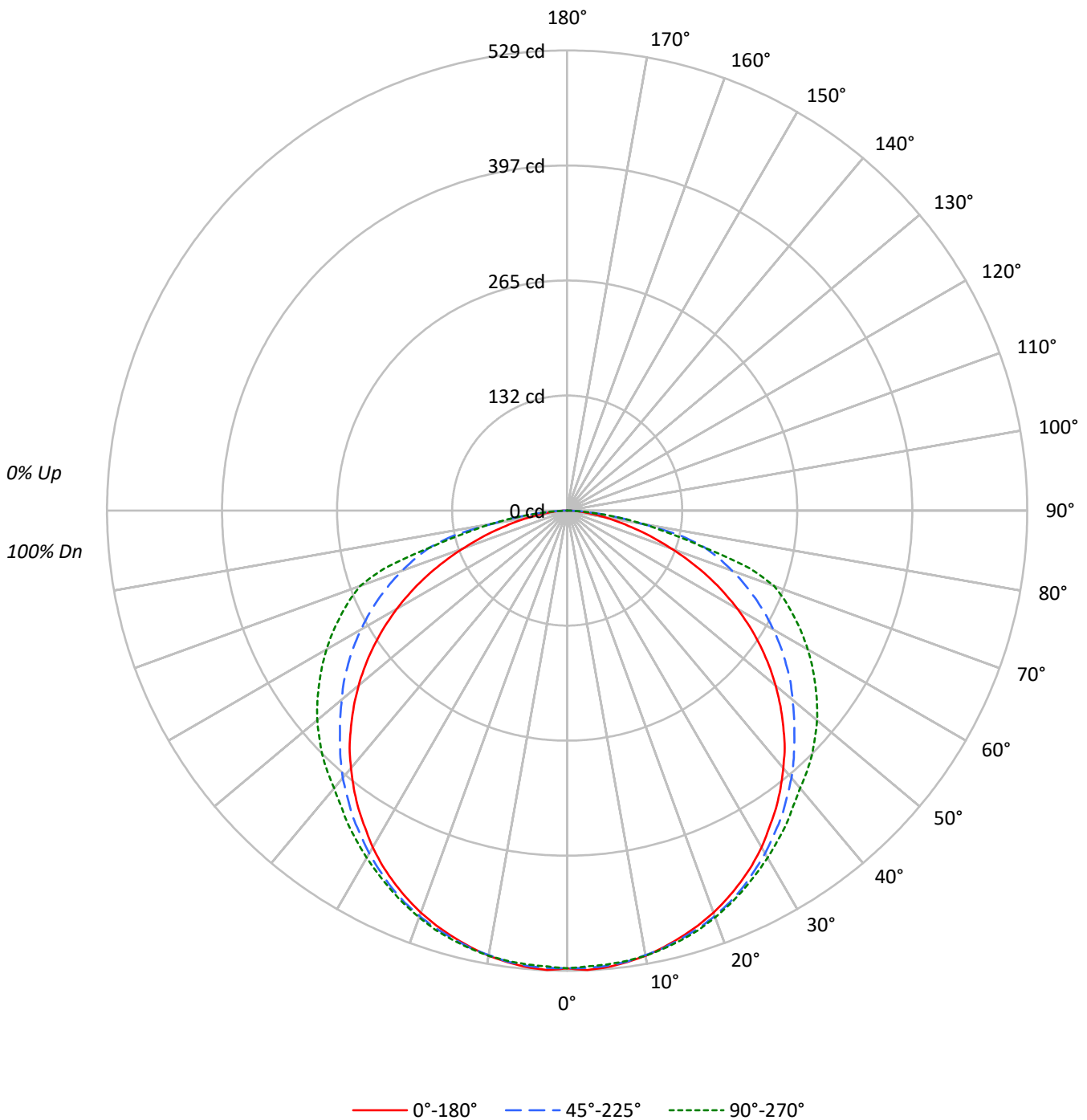
Input Watts (W): 20.074329
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	708	708	708
5°	712	710	707
10°	710	709	710
15°	707	709	711
20°	704	710	712
25°	700	710	713
30°	694	707	716
35°	687	706	722
40°	679	705	732
45°	669	703	757
50°	655	708	785
55°	636	721	817
60°	609	737	860
65°	567	760	916
70°	502	794	996
75°	421	849	837
80°	336	671	697
85°	266	454	417



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.9	3.0
10°-20°	143.6	8.7
20°-30°	219.4	13.2
30°-40°	268.2	16.2
40°-50°	287.1	17.3
50°-60°	275.4	16.6
60°-70°	232.5	14.0
70°-80°	148.6	9.0
80°-90°	35.1	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°	413.0	24.9
0°-40°	681.2	41.0
0°-60°	1243.7	74.9
0°-90°	1660.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1660.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	526	526	526	526	526	
5°	527	524	525	525	524	50
15°	507	506	509	511	511	143
25°	472	471	478	480	480	217
35°	418	422	430	436	440	262
45°	351	357	369	386	398	271
55°	271	280	307	335	348	242
65°	178	195	239	272	288	176
75°	81	115	163	167	161	87
85°	17	29	29	29	27	21
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	526.2	526.2	526.2	526.2	526.2
2.5°	528.7	525.4	526.2	526.2	524.6
5°	527.0	523.8	525.4	524.6	523.8
7.5°	523.8	521.3	523.0	523.0	522.1
10°	519.7	517.2	518.9	519.7	519.7
12.5°	514.0	512.3	514.8	514.8	515.6
15°	507.4	505.8	509.1	510.7	510.7
17.5°	500.1	499.3	503.3	504.2	505.0
20°	491.9	491.1	496.0	496.0	497.6
22.5°	482.1	481.3	487.8	487.8	489.5
25°	471.5	470.7	478.0	479.7	480.5
27.5°	460.0	459.2	466.6	469.0	470.7
30°	447.0	447.0	455.1	458.4	460.9
32.5°	432.3	434.7	442.1	447.0	450.2
35°	418.4	421.6	429.8	435.5	439.6
37.5°	402.8	406.1	415.1	422.5	427.4
40°	386.5	390.6	401.2	409.4	416.7
42.5°	370.2	374.2	385.7	397.9	407.7
45°	351.4	357.1	369.3	386.5	397.9
47.5°	332.6	338.3	353.8	375.1	386.5
50°	313.0	319.5	338.3	362.8	375.1
52.5°	292.5	299.9	323.6	349.7	362.0
55°	271.3	280.3	307.2	335.0	348.1
57.5°	249.2	259.0	290.9	320.3	334.2
60°	226.3	238.6	273.7	304.8	319.5
62.5°	202.6	217.4	256.6	288.4	304.0
65°	178.1	195.3	238.6	272.1	287.6
67.5°	152.8	175.7	220.6	255.8	271.3
70°	127.5	154.4	201.8	237.8	253.3
72.5°	103.8	134.8	183.0	216.5	219.8
75°	80.9	115.2	163.4	166.7	161.0
77.5°	60.5	95.6	134.8	120.1	119.3
80°	43.3	76.8	86.6	89.1	89.9
82.5°	28.6	58.0	56.4	58.0	57.2
85°	17.2	28.6	29.4	28.6	27.0
87.5°	8.2	10.6	8.2	7.4	6.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)