

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: P263619

Luminaire Tested: **24CZ-LD5-30SE-RDP-UNV-L93050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263619
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-LD5-30SE-RDP-UNV-L93050-W2A1-U-4000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1935.1 lumens
Efficiency: N/A
Efficacy: 86.7 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

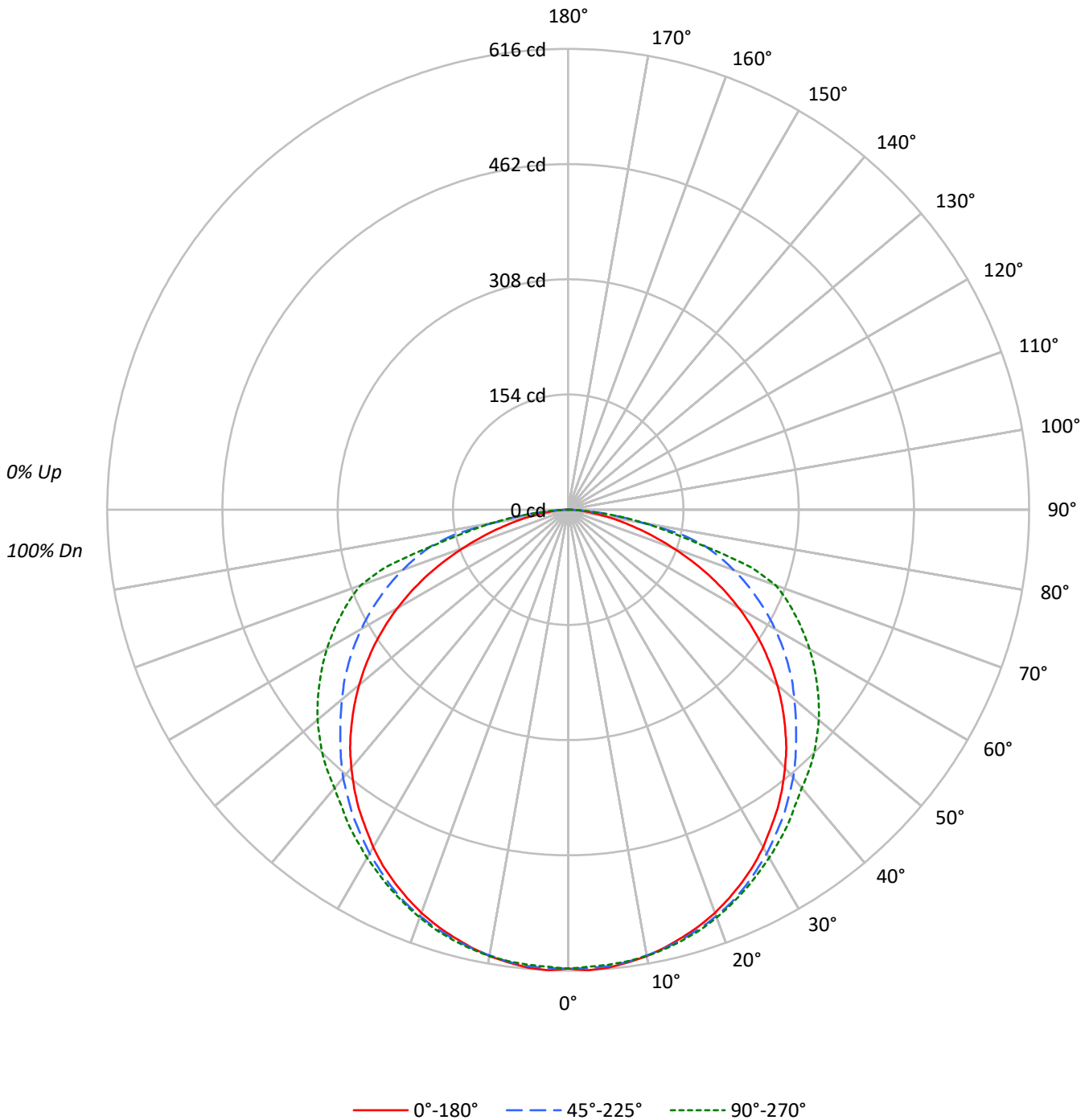
Input Watts (W): 22.327812
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	825	825	825
5°	830	827	825
10°	828	826	828
15°	824	827	829
20°	821	828	831
25°	816	827	832
30°	809	824	835
35°	801	823	842
40°	791	821	853
45°	779	819	883
50°	764	826	915
55°	742	840	952
60°	710	859	1002
65°	661	885	1067
70°	585	926	1162
75°	490	990	976
80°	391	783	812
85°	309	530	485



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.2	3.0
10°-20°	167.4	8.7
20°-30°	255.8	13.2
30°-40°	312.7	16.2
40°-50°	334.7	17.3
50°-60°	321.0	16.6
60°-70°	271.1	14.0
70°-80°	173.2	9.0
80°-90°	41.0	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°	481.4	24.9
0°-40°	794.1	41.0
0°-60°	1449.8	74.9
0°-90°	1935.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1935.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	613	613	613	613	613	
5°	614	611	612	612	611	58
15°	592	590	593	595	595	167
25°	550	549	557	559	560	253
35°	488	492	501	508	512	305
45°	410	416	430	451	464	316
55°	316	327	358	390	406	282
65°	208	228	278	317	335	205
75°	94	134	190	194	188	102
85°	20	33	34	33	31	24
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	613.4	613.4	613.4	613.4	613.4
2.5°	616.3	612.5	613.4	613.4	611.5
5°	614.4	610.6	612.5	611.5	610.6
7.5°	610.6	607.7	609.6	609.6	608.7
10°	605.8	603.0	604.9	605.8	605.8
12.5°	599.1	597.2	600.1	600.1	601.1
15°	591.5	589.6	593.4	595.3	595.3
17.5°	583.0	582.0	586.8	587.7	588.7
20°	573.4	572.5	578.2	578.2	580.1
22.5°	562.0	561.0	568.7	568.7	570.6
25°	549.6	548.7	557.2	559.1	560.1
27.5°	536.3	535.3	543.9	546.8	548.7
30°	521.0	521.0	530.6	534.4	537.2
32.5°	503.9	506.8	515.3	521.0	524.9
35°	487.7	491.5	501.0	507.7	512.5
37.5°	469.6	473.4	483.9	492.5	498.2
40°	450.6	455.3	467.7	477.2	485.8
42.5°	431.5	436.3	449.6	463.9	475.3
45°	409.6	416.3	430.5	450.6	463.9
47.5°	387.7	394.4	412.5	437.2	450.6
50°	364.8	372.4	394.4	422.9	437.2
52.5°	341.0	349.6	377.2	407.7	422.0
55°	316.2	326.7	358.2	390.5	405.8
57.5°	290.5	302.0	339.1	373.4	389.6
60°	263.9	278.1	319.1	355.3	372.4
62.5°	236.2	253.4	299.1	336.2	354.3
65°	207.7	227.7	278.1	317.2	335.3
67.5°	178.1	204.8	257.2	298.1	316.2
70°	148.6	180.0	235.3	277.2	295.3
72.5°	121.0	157.2	213.4	252.4	256.2
75°	94.3	134.3	190.5	194.3	187.7
77.5°	70.5	111.4	157.2	140.0	139.1
80°	50.5	89.5	101.0	103.8	104.8
82.5°	33.3	67.6	65.7	67.6	66.7
85°	20.0	33.3	34.3	33.3	31.4
87.5°	9.5	12.4	9.5	8.6	7.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)