

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: P263876

Luminaire Tested: **24CZ-LD5-35SE-RDP-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263876
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-LD5-35SE-RDP-UNV-L92765-W2A1-U-2700K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1937.0 lumens
Efficiency: N/A
Efficacy: 74.7 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

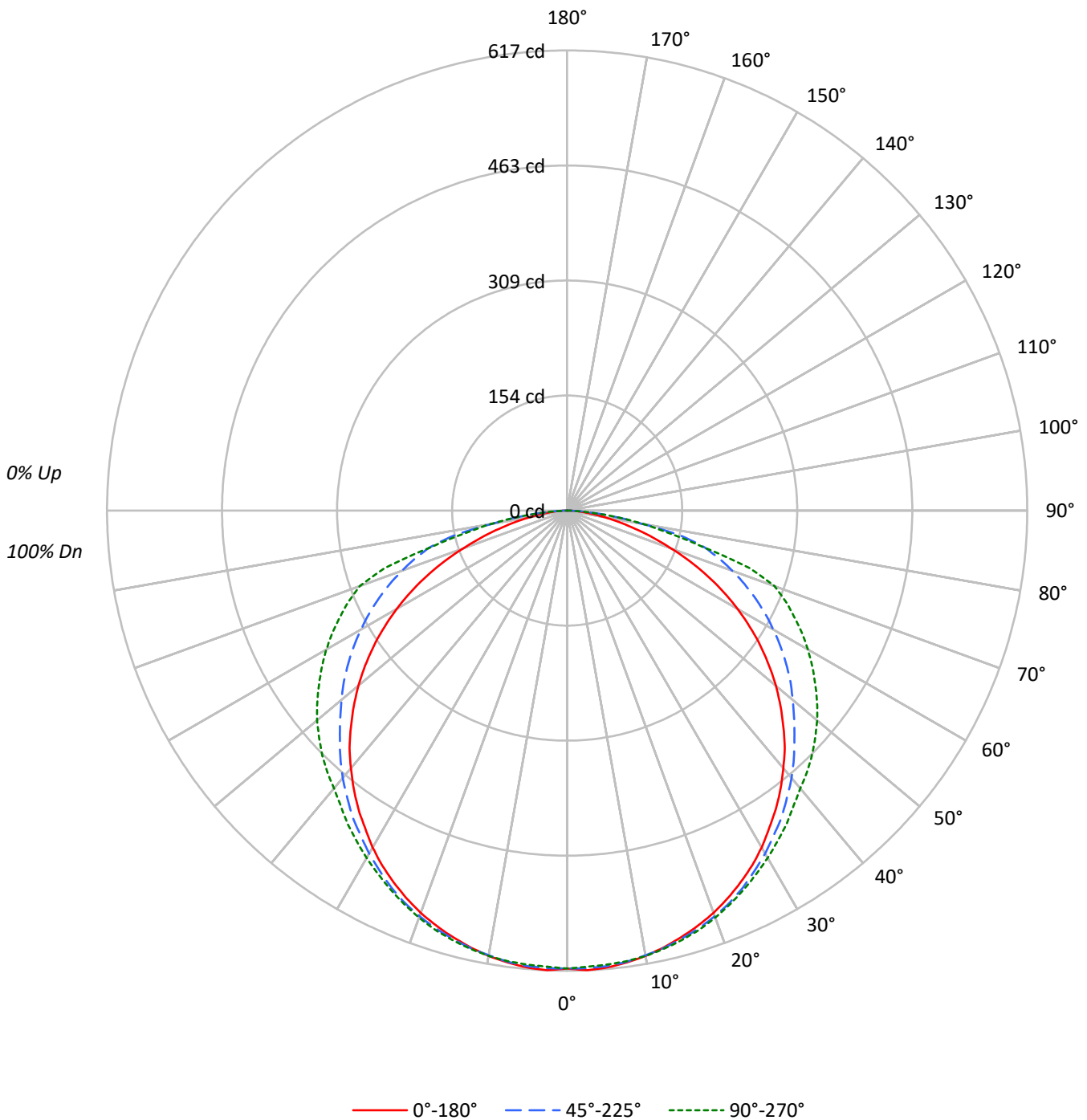
Input Watts (W): 25.947
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	826	826	826
5°	831	828	826
10°	828	827	828
15°	825	827	830
20°	822	829	831
25°	817	828	832
30°	810	825	836
35°	802	824	843
40°	792	822	854
45°	780	820	883
50°	764	826	916
55°	743	841	953
60°	711	859	1003
65°	662	886	1068
70°	585	926	1163
75°	491	991	976
80°	391	783	813
85°	309	530	486



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.2	3.0
10°-20°	167.6	8.7
20°-30°	256.0	13.2
30°-40°	313.0	16.2
40°-50°	335.0	17.3
50°-60°	321.4	16.6
60°-70°	271.3	14.0
70°-80°	173.4	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°	481.9	24.9
0°-40°	794.9	41.0
0°-60°	1451.2	74.9
0°-90°	1937.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1937.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	614	614	614	614	614	
5°	615	611	613	612	611	58
15°	592	590	594	596	596	167
25°	550	549	558	560	561	254
35°	488	492	502	508	513	305
45°	410	417	431	451	464	316
55°	317	327	358	391	406	282
65°	208	228	278	318	336	205
75°	94	134	191	194	188	102
85°	20	33	34	33	32	24
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	614.0	614.0	614.0	614.0	614.0
2.5°	616.9	613.1	614.0	614.0	612.1
5°	615.0	611.2	613.1	612.1	611.2
7.5°	611.2	608.3	610.2	610.2	609.3
10°	606.4	603.6	605.5	606.4	606.4
12.5°	599.7	597.8	600.7	600.7	601.6
15°	592.1	590.2	594.0	595.9	595.9
17.5°	583.5	582.6	587.3	588.3	589.3
20°	574.0	573.0	578.8	578.8	580.7
22.5°	562.6	561.6	569.2	569.2	571.1
25°	550.2	549.2	557.8	559.7	560.6
27.5°	536.8	535.9	544.4	547.3	549.2
30°	521.6	521.6	531.1	534.9	537.8
32.5°	504.4	507.3	515.8	521.6	525.4
35°	488.2	492.0	501.5	508.2	513.0
37.5°	470.1	473.9	484.4	493.0	498.7
40°	451.0	455.8	468.2	477.7	486.3
42.5°	431.9	436.7	450.0	464.3	475.8
45°	410.0	416.7	431.0	451.0	464.3
47.5°	388.1	394.7	412.9	437.7	451.0
50°	365.2	372.8	394.7	423.3	437.7
52.5°	341.3	349.9	377.6	408.1	422.4
55°	316.6	327.0	358.5	390.9	406.2
57.5°	290.8	302.3	339.4	373.8	390.0
60°	264.1	278.4	319.4	355.7	372.8
62.5°	236.5	253.6	299.4	336.6	354.7
65°	207.9	227.9	278.4	317.5	335.6
67.5°	178.3	205.0	257.4	298.4	316.6
70°	148.7	180.2	235.5	277.5	295.6
72.5°	121.1	157.3	213.6	252.7	256.5
75°	94.4	134.4	190.7	194.5	187.8
77.5°	70.6	111.6	157.3	140.2	139.2
80°	50.5	89.6	101.1	103.9	104.9
82.5°	33.4	67.7	65.8	67.7	66.7
85°	20.0	33.4	34.3	33.4	31.5
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)