

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: P230466

Luminaire Tested: **24CZ-LD5-35-RDP-UNV-L940-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P230466
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-LD5-35-RDP-UNV-L940-CD1-U
Description: CRUZE 2x4 LED TROFFER
WITH RDP LENS
Light Source: (168) 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2030.2 lumens
Efficiency: N/A
Efficacy: 80.2 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

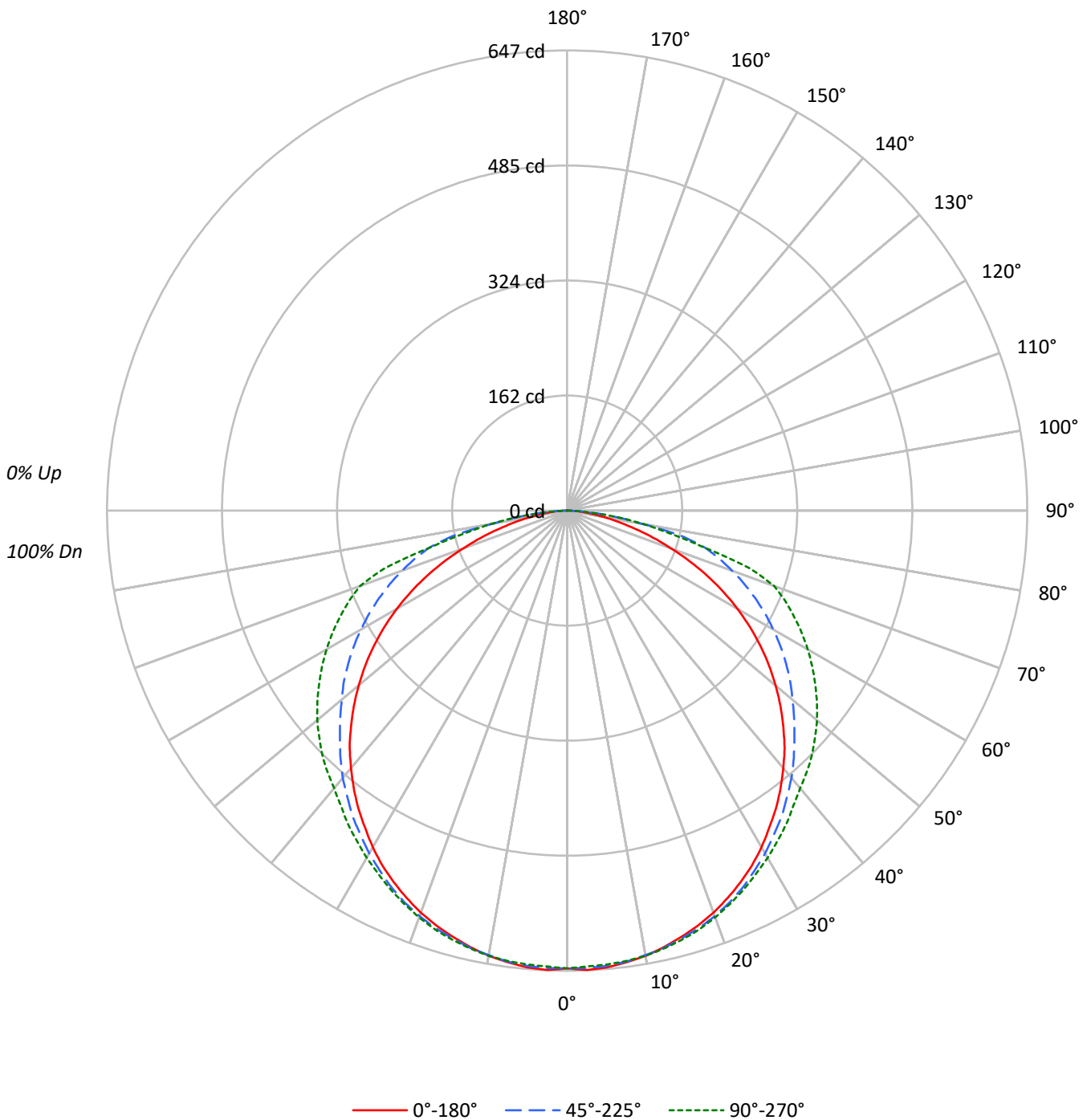
Input Watts (W): 25.32
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	61	73	66	60	70	64	59	67	62	58	56
4	81	68	59	52	78	67	58	52	64	57	51	62	55	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°	866	866	866
5°	871	868	865
10°	868	867	868
15°	864	867	870
20°	861	869	871
25°	856	868	872
30°	849	865	876
35°	840	863	883
40°	830	862	895
45°	818	859	926
50°	801	866	960
55°	778	882	999
60°	745	901	1051
65°	694	929	1120
70°	613	971	1219
75°	514	1039	1024
80°	411	821	852
85°	324	556	509



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.0	3.0
10°-20°	175.7	8.7
20°-30°	268.3	13.2
30°-40°	328.1	16.2
40°-50°	351.1	17.3
50°-60°	336.8	16.6
60°-70°	284.4	14.0
70°-80°	181.8	9.0
80°-90°	43.0	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°	505.0	24.9
0°-40°	833.1	41.0
0°-60°	1521.0	74.9
0°-90°	2030.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2030.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	644	644	644	644	644	
5°	645	641	643	642	641	61
15°	621	619	623	625	625	175
25°	577	576	585	587	588	266
35°	512	516	526	533	538	320
45°	430	437	452	473	487	331
55°	332	343	376	410	426	296
65°	218	239	292	333	352	215
75°	99	141	200	204	197	107
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°	643.6	643.6	643.6	643.6	643.6
2.5°	646.6	642.6	643.6	643.6	641.6
5°	644.6	640.6	642.6	641.6	640.6
7.5°	640.6	637.6	639.6	639.6	638.6
10°	635.6	632.6	634.6	635.6	635.6
12.5°	628.6	626.6	629.6	629.6	630.6
15°	620.6	618.6	622.6	624.6	624.6
17.5°	611.6	610.6	615.6	616.6	617.6
20°	601.6	600.6	606.6	606.6	608.6
22.5°	589.6	588.6	596.6	596.6	598.6
25°	576.6	575.6	584.6	586.6	587.6
27.5°	562.6	561.6	570.6	573.6	575.6
30°	546.6	546.6	556.6	560.6	563.6
32.5°	528.7	531.6	540.6	546.6	550.6
35°	511.7	515.7	525.7	532.6	537.6
37.5°	492.7	496.7	507.7	516.7	522.7
40°	472.7	477.7	490.7	500.7	509.7
42.5°	452.7	457.7	471.7	486.7	498.7
45°	429.7	436.7	451.7	472.7	486.7
47.5°	406.7	413.7	432.7	458.7	472.7
50°	382.7	390.7	413.7	443.7	458.7
52.5°	357.8	366.8	395.7	427.7	442.7
55°	331.8	342.8	375.8	409.7	425.7
57.5°	304.8	316.8	355.8	391.7	408.7
60°	276.8	291.8	334.8	372.8	390.7
62.5°	247.8	265.8	313.8	352.8	371.8
65°	217.9	238.8	291.8	332.8	351.8
67.5°	186.9	214.9	269.8	312.8	331.8
70°	155.9	188.9	246.8	290.8	309.8
72.5°	126.9	164.9	223.9	264.8	268.8
75°	98.9	140.9	199.9	203.9	196.9
77.5°	74.0	116.9	164.9	146.9	145.9
80°	53.0	93.9	105.9	108.9	109.9
82.5°	35.0	71.0	69.0	71.0	70.0
85°	21.0	35.0	36.0	35.0	33.0
87.5°	10.0	13.0	10.0	9.0	8.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)