

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: P263622

Luminaire Tested: **24CZ-LD5-35SE-RDP-UNV-L93050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263622
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-L93050-W2A1-U-3000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1923.3 lumens
Efficiency: N/A
Efficacy: 72.2 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

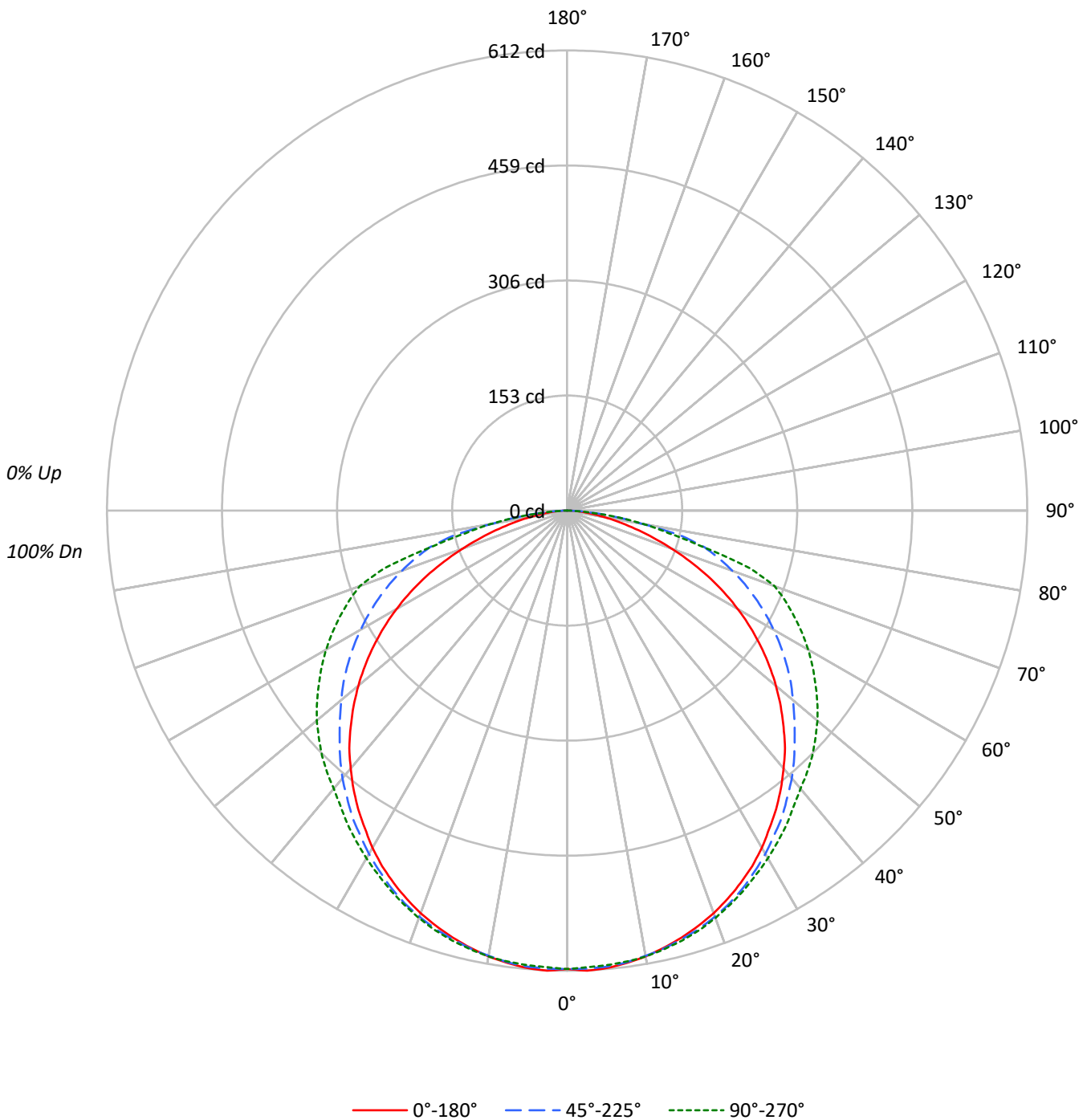
Input Watts (W): 26.63892
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	820	820	820
5°	825	822	820
10°	823	821	823
15°	819	822	824
20°	816	823	826
25°	811	822	826
30°	805	819	830
35°	796	818	837
40°	787	817	848
45°	775	814	877
50°	759	821	910
55°	737	835	946
60°	706	854	996
65°	657	880	1061
70°	581	920	1155
75°	487	984	970
80°	389	778	807
85°	307	526	482



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.8	3.0
10°-20°	166.4	8.7
20°-30°	254.2	13.2
30°-40°	310.8	16.2
40°-50°	332.7	17.3
50°-60°	319.1	16.6
60°-70°	269.4	14.0
70°-80°	172.2	9.0
80°-90°	40.7	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°	478.5	24.9
0°-40°	789.2	41.0
0°-60°	1441.0	74.9
0°-90°	1923.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1923.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	610	610	610	610	610	
5°	611	607	609	608	607	58
15°	588	586	590	592	592	166
25°	546	545	554	556	557	252
35°	485	488	498	505	509	303
45°	407	414	428	448	461	314
55°	314	325	356	388	403	280
65°	206	226	276	315	333	204
75°	94	134	189	193	186	101
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°	609.7	609.7	609.7	609.7	609.7
2.5°	612.5	608.8	609.7	609.7	607.8
5°	610.7	606.9	608.8	607.8	606.9
7.5°	606.9	604.0	605.9	605.9	605.0
10°	602.1	599.3	601.2	602.1	602.1
12.5°	595.5	593.6	596.4	596.4	597.4
15°	587.9	586.0	589.8	591.7	591.7
17.5°	579.4	578.5	583.2	584.1	585.1
20°	569.9	569.0	574.7	574.7	576.6
22.5°	558.6	557.6	565.2	565.2	567.1
25°	546.3	545.3	553.8	555.7	556.7
27.5°	533.0	532.1	540.6	543.4	545.3
30°	517.9	517.9	527.3	531.1	534.0
32.5°	500.8	503.7	512.2	517.9	521.7
35°	484.7	488.5	498.0	504.6	509.3
37.5°	466.7	470.5	480.9	489.5	495.1
40°	447.8	452.5	464.9	474.3	482.8
42.5°	428.9	433.6	446.9	461.1	472.4
45°	407.1	413.7	427.9	447.8	461.1
47.5°	385.3	392.0	409.9	434.6	447.8
50°	362.6	370.2	392.0	420.4	434.6
52.5°	338.9	347.5	374.9	405.2	419.4
55°	314.3	324.7	356.0	388.2	403.3
57.5°	288.8	300.1	337.0	371.1	387.2
60°	262.2	276.4	317.2	353.1	370.2
62.5°	234.8	251.8	297.3	334.2	352.2
65°	206.4	226.3	276.4	315.3	333.3
67.5°	177.0	203.6	255.6	296.3	314.3
70°	147.7	178.9	233.8	275.5	293.5
72.5°	120.2	156.2	212.1	250.9	254.7
75°	93.7	133.5	189.3	193.1	186.5
77.5°	70.1	110.8	156.2	139.2	138.2
80°	50.2	89.0	100.4	103.2	104.1
82.5°	33.1	67.2	65.3	67.2	66.3
85°	19.9	33.1	34.1	33.1	31.2
87.5°	9.5	12.3	9.5	8.5	7.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)