

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: P263623

Luminaire Tested: **24CZ-LD5-35SE-RDP-UNV-L93050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263623
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-3500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2101.3 lumens
Efficiency: N/A
Efficacy: 79.2 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

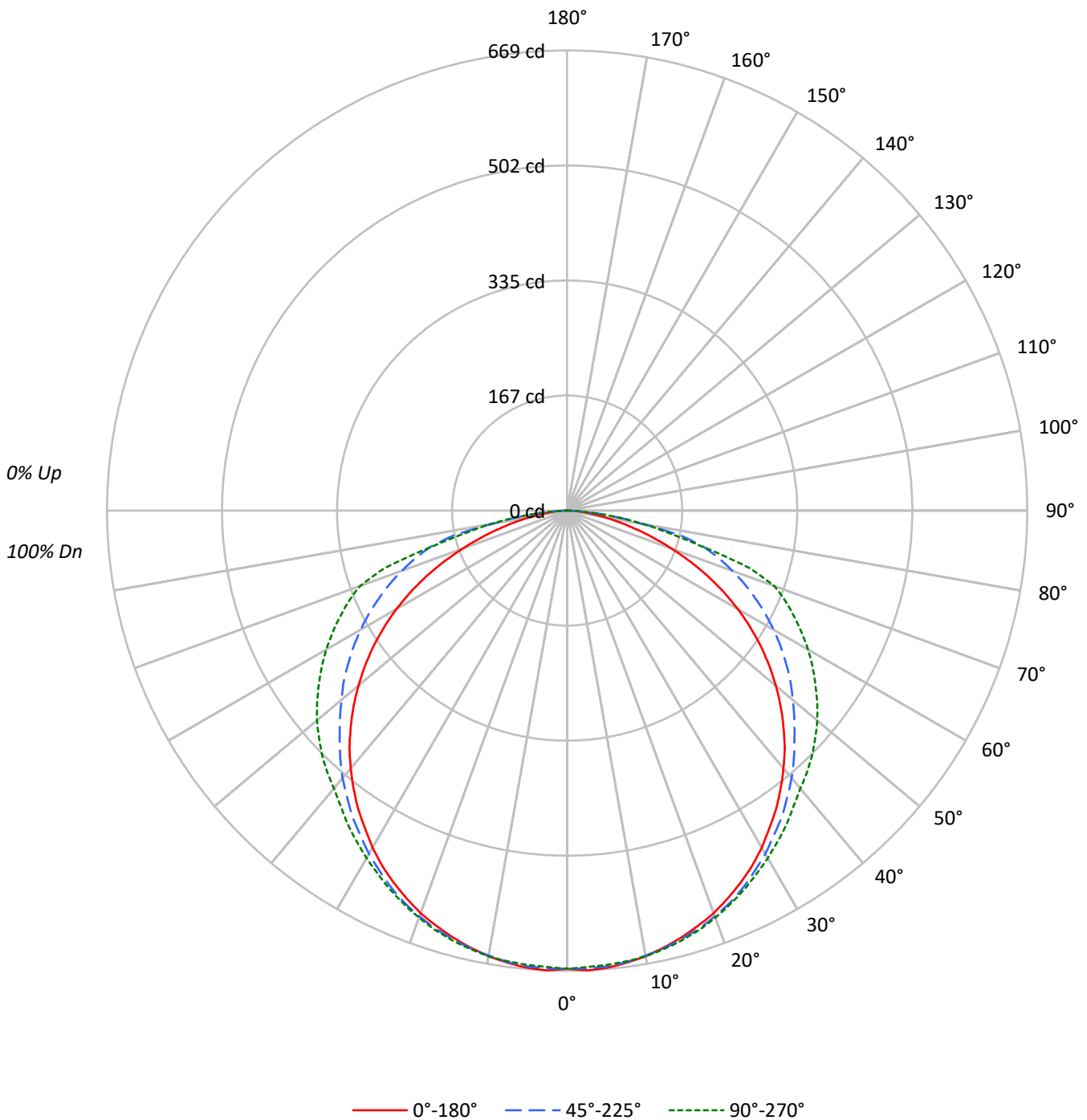
Input Watts (W): 26.53476
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	896	896	896
5°	901	898	895
10°	899	897	899
15°	895	898	901
20°	892	899	902
25°	886	898	903
30°	879	895	906
35°	870	894	914
40°	859	892	927
45°	846	890	958
50°	829	896	994
55°	806	912	1034
60°	771	932	1088
65°	718	961	1159
70°	635	1005	1262
75°	532	1076	1059
80°	425	849	882
85°	335	574	526



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.2	3.0
10°-20°	181.8	8.7
20°-30°	277.7	13.2
30°-40°	339.5	16.2
40°-50°	363.4	17.3
50°-60°	348.6	16.6
60°-70°	294.3	14.0
70°-80°	188.1	9.0
80°-90°	44.5	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°	522.7	24.9
0°-40°	862.3	41.0
0°-60°	1574.3	74.9
0°-90°	2101.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2101.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	666	666	666	666	666	
5°	667	663	665	664	663	63
15°	642	640	644	646	646	181
25°	597	596	605	607	608	275
35°	530	534	544	551	556	331
45°	445	452	468	489	504	343
55°	343	355	389	424	441	306
65°	226	247	302	344	364	222
75°	102	146	207	211	204	110
85°	22	36	37	36	34	26
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	666.1	666.1	666.1	666.1	666.1
2.5°	669.2	665.1	666.1	666.1	664.1
5°	667.2	663.0	665.1	664.1	663.0
7.5°	663.0	659.9	662.0	662.0	661.0
10°	657.9	654.8	656.8	657.9	657.9
12.5°	650.6	648.5	651.6	651.6	652.7
15°	642.3	640.3	644.4	646.5	646.5
17.5°	633.0	632.0	637.2	638.2	639.2
20°	622.7	621.7	627.9	627.9	629.9
22.5°	610.3	609.2	617.5	617.5	619.6
25°	596.8	595.8	605.1	607.2	608.2
27.5°	582.3	581.3	590.6	593.7	595.8
30°	565.8	565.8	576.1	580.3	583.4
32.5°	547.2	550.3	559.6	565.8	569.9
35°	529.6	533.7	544.1	551.3	556.5
37.5°	509.9	514.1	525.5	534.8	541.0
40°	489.3	494.4	507.9	518.2	527.5
42.5°	468.6	473.7	488.2	503.7	516.1
45°	444.8	452.0	467.5	489.3	503.7
47.5°	421.0	428.2	447.9	474.8	489.3
50°	396.2	404.4	428.2	459.3	474.8
52.5°	370.3	379.6	409.6	442.7	458.2
55°	343.4	354.8	388.9	424.1	440.6
57.5°	315.5	327.9	368.2	405.5	423.1
60°	286.5	302.0	346.5	385.8	404.4
62.5°	256.5	275.1	324.8	365.1	384.8
65°	225.5	247.2	302.0	344.4	364.1
67.5°	193.4	222.4	279.3	323.8	343.4
70°	161.4	195.5	255.5	301.0	320.7
72.5°	131.4	170.7	231.7	274.1	278.2
75°	102.4	145.8	206.9	211.0	203.8
77.5°	76.5	121.0	170.7	152.1	151.0
80°	54.8	97.2	109.6	112.7	113.8
82.5°	36.2	73.4	71.4	73.4	72.4
85°	21.7	36.2	37.2	36.2	34.1
87.5°	10.3	13.4	10.3	9.3	8.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)