

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: P263733

Luminaire Tested: **24CZ-LD5-30SE-RDP-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263733
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-L82765-W2A1-U-3000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1990.0 lumens
Efficiency: N/A
Efficacy: 92.2 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

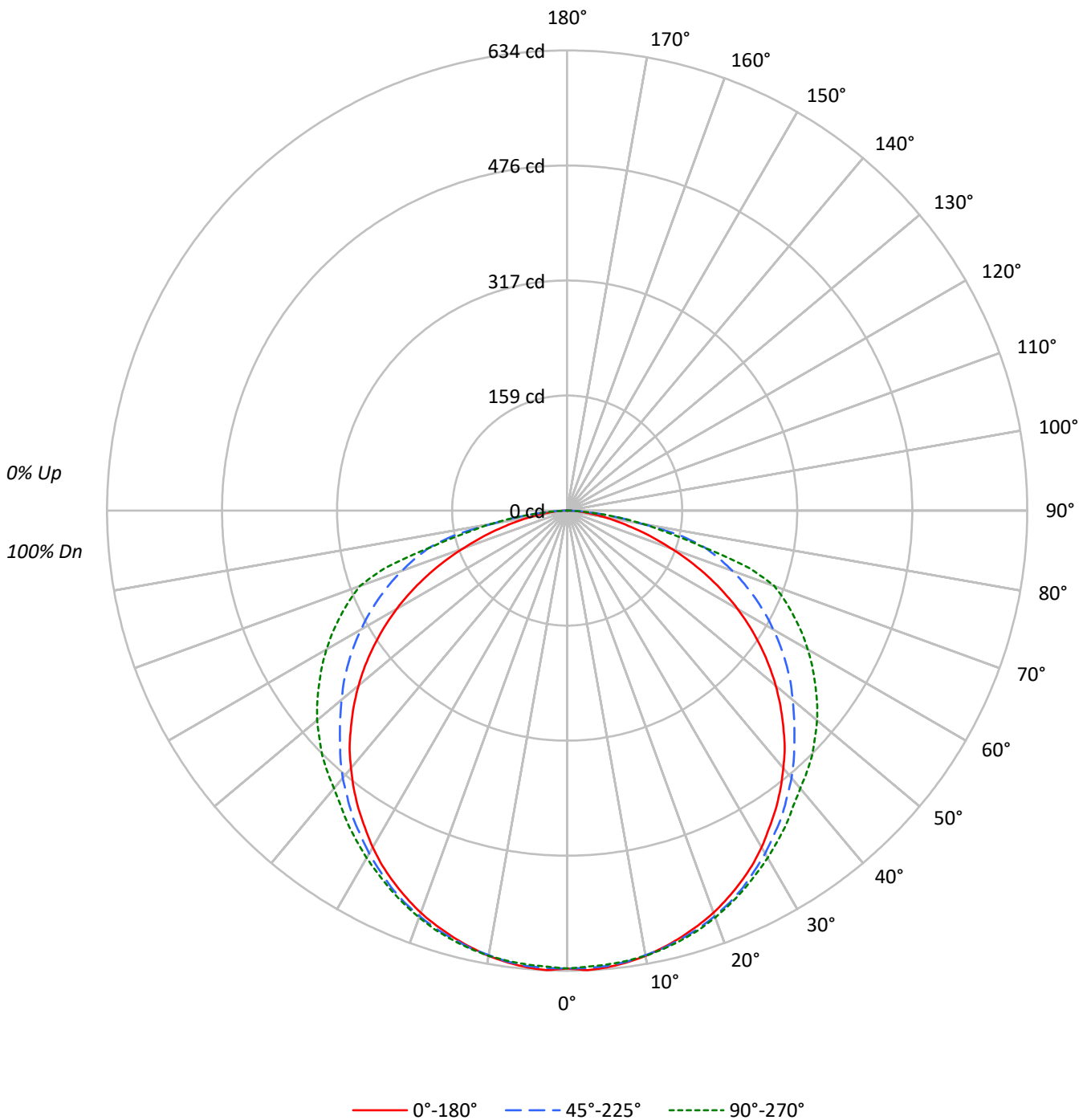
Input Watts (W): 21.576
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	849	849	849
5°	853	851	848
10°	851	850	851
15°	847	850	853
20°	844	851	854
25°	839	851	855
30°	832	848	858
35°	824	846	866
40°	814	845	878
45°	801	843	908
50°	785	849	941
55°	763	864	979
60°	730	883	1031
65°	680	911	1098
70°	601	952	1195
75°	504	1018	1003
80°	402	804	835
85°	318	545	499



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.8	3.0
10°-20°	172.2	8.7
20°-30°	263.0	13.2
30°-40°	321.6	16.2
40°-50°	344.2	17.3
50°-60°	330.1	16.6
60°-70°	278.8	14.0
70°-80°	178.1	9.0
80°-90°	42.1	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°	495.0	24.9
0°-40°	816.6	41.0
0°-60°	1490.9	74.9
0°-90°	1990.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1990.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	631	631	631	631	631	
5°	632	628	630	629	628	60
15°	608	606	610	612	612	172
25°	565	564	573	575	576	260
35°	502	506	515	522	527	314
45°	421	428	443	463	477	325
55°	325	336	368	402	417	290
65°	214	234	286	326	345	211
75°	97	138	196	200	193	104
85°	21	34	35	34	32	25
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	630.8	630.8	630.8	630.8	630.8
2.5°	633.8	629.9	630.8	630.8	628.9
5°	631.8	627.9	629.9	628.9	627.9
7.5°	627.9	625.0	626.9	626.9	625.9
10°	623.0	620.1	622.0	623.0	623.0
12.5°	616.2	614.2	617.1	617.1	618.1
15°	608.3	606.4	610.3	612.2	612.2
17.5°	599.5	598.5	603.4	604.4	605.4
20°	589.7	588.7	594.6	594.6	596.6
22.5°	577.9	577.0	584.8	584.8	586.8
25°	565.2	564.2	573.1	575.0	576.0
27.5°	551.5	550.5	559.3	562.3	564.2
30°	535.8	535.8	545.6	549.5	552.5
32.5°	518.2	521.1	530.0	535.8	539.7
35°	501.5	505.5	515.3	522.1	527.0
37.5°	482.9	486.8	497.6	506.4	512.3
40°	463.3	468.2	481.0	490.8	499.6
42.5°	443.7	448.6	462.4	477.1	488.8
45°	421.2	428.1	442.8	463.3	477.1
47.5°	398.7	405.5	424.2	449.6	463.3
50°	375.2	383.0	405.5	434.9	449.6
52.5°	350.7	359.5	387.9	419.3	434.0
55°	325.2	336.0	368.3	401.6	417.3
57.5°	298.8	310.5	348.7	384.0	400.6
60°	271.3	286.0	328.2	365.4	383.0
62.5°	242.9	260.6	307.6	345.8	364.4
65°	213.5	234.1	286.0	326.2	344.8
67.5°	183.2	210.6	264.5	306.6	325.2
70°	152.8	185.1	242.0	285.1	303.7
72.5°	124.4	161.6	219.4	259.6	263.5
75°	97.0	138.1	195.9	199.8	193.0
77.5°	72.5	114.6	161.6	144.0	143.0
80°	51.9	92.1	103.8	106.8	107.8
82.5°	34.3	69.5	67.6	69.5	68.6
85°	20.6	34.3	35.3	34.3	32.3
87.5°	9.8	12.7	9.8	8.8	7.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)