

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: P263737

Luminaire Tested: **24CZ-LD5-30SE-RDP-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263737
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-5000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2170.0 lumens
Efficiency: N/A
Efficacy: 97.6 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

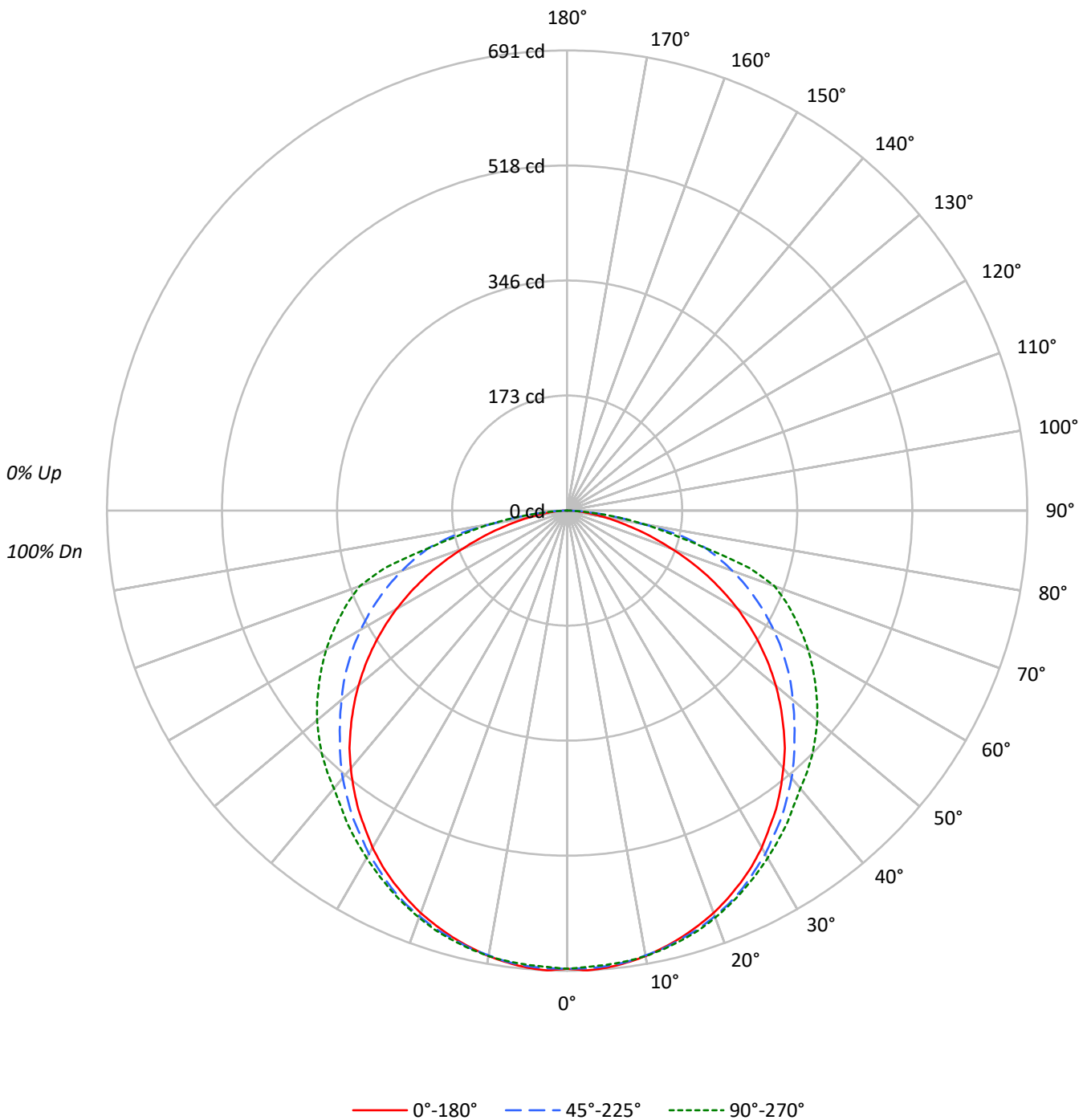
Input Watts (W): 22.227
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20			20			20			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°	926	926	926
5°	931	928	925
10°	928	927	928
15°	924	927	930
20°	921	928	931
25°	915	928	932
30°	908	924	936
35°	898	923	944
40°	887	921	957
45°	874	919	990
50°	856	926	1026
55°	832	942	1067
60°	796	963	1124
65°	741	993	1197
70°	655	1038	1303
75°	549	1110	1094
80°	439	877	910
85°	346	594	543



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.2	3.0
10°-20°	187.8	8.7
20°-30°	286.8	13.2
30°-40°	350.6	16.2
40°-50°	375.3	17.3
50°-60°	360.0	16.6
60°-70°	304.0	14.0
70°-80°	194.3	9.0
80°-90°	45.9	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°	539.8	24.9
0°-40°	890.5	41.0
0°-60°	1625.8	74.9
0°-90°	2170.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2170.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	688	688	688	688	688	
5°	689	685	687	686	685	65
15°	663	661	666	668	668	187
25°	616	615	625	627	628	284
35°	547	551	562	569	575	342
45°	459	467	483	505	520	354
55°	355	366	402	438	455	316
65°	233	255	312	356	376	230
75°	106	151	214	218	210	114
85°	22	37	38	37	35	27
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	687.9	687.9	687.9	687.9	687.9
2.5°	691.1	686.8	687.9	687.9	685.8
5°	689.0	684.7	686.8	685.8	684.7
7.5°	684.7	681.5	683.6	683.6	682.6
10°	679.4	676.2	678.3	679.4	679.4
12.5°	671.9	669.7	673.0	673.0	674.0
15°	663.3	661.2	665.5	667.6	667.6
17.5°	653.7	652.7	658.0	659.1	660.1
20°	643.0	642.0	648.4	648.4	650.5
22.5°	630.2	629.2	637.7	637.7	639.8
25°	616.3	615.3	624.9	627.0	628.1
27.5°	601.4	600.3	609.9	613.1	615.3
30°	584.3	584.3	595.0	599.2	602.5
32.5°	565.1	568.3	577.9	584.3	588.6
35°	546.9	551.2	561.9	569.3	574.7
37.5°	526.6	530.9	542.6	552.2	558.7
40°	505.2	510.6	524.5	535.2	544.8
42.5°	483.9	489.2	504.2	520.2	533.0
45°	459.3	466.8	482.8	505.2	520.2
47.5°	434.7	442.2	462.5	490.3	505.2
50°	409.1	417.7	442.2	474.3	490.3
52.5°	382.4	392.0	423.0	457.2	473.2
55°	354.6	366.4	401.6	438.0	455.0
57.5°	325.8	338.6	380.3	418.7	436.9
60°	295.9	311.9	357.8	398.4	417.7
62.5°	264.9	284.1	335.4	377.1	397.4
65°	232.9	255.3	311.9	355.7	376.0
67.5°	199.7	229.7	288.4	334.3	354.6
70°	166.6	201.9	263.8	310.8	331.1
72.5°	135.7	176.2	239.3	283.1	287.3
75°	105.7	150.6	213.6	217.9	210.4
77.5°	79.0	125.0	176.2	157.0	156.0
80°	56.6	100.4	113.2	116.4	117.5
82.5°	37.4	75.8	73.7	75.8	74.8
85°	22.4	37.4	38.5	37.4	35.2
87.5°	10.7	13.9	10.7	9.6	8.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)