

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: P263870

Luminaire Tested: **24CZ-LD5-30SE-RDP-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263870
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-L92765-W2A1-U-4000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1862.0 lumens
Efficiency: N/A
Efficacy: 84.5 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

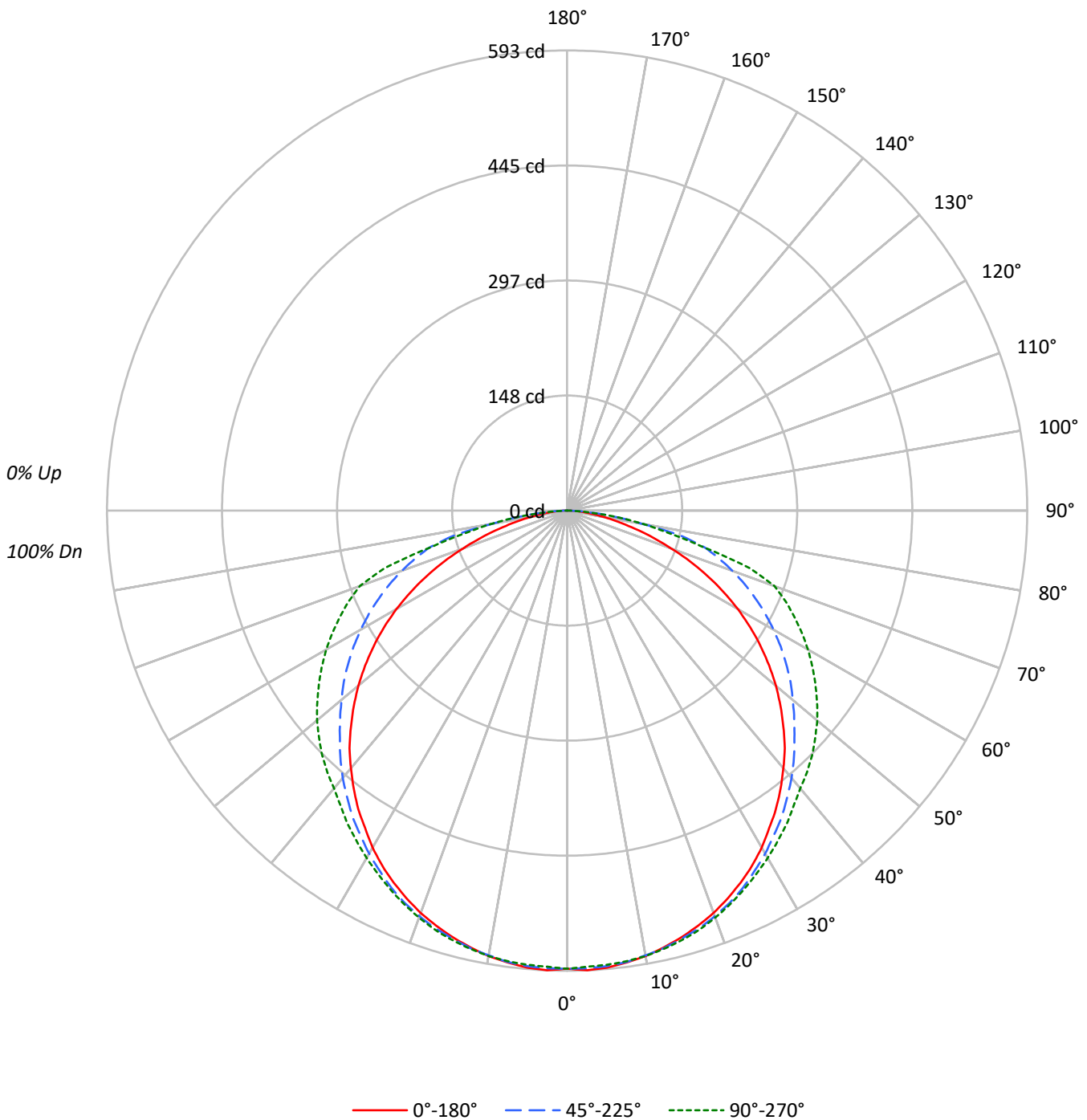
Input Watts (W): 22.041
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	794	794	794
5°	798	796	793
10°	796	795	796
15°	793	795	798
20°	790	797	799
25°	785	796	800
30°	779	793	803
35°	771	792	810
40°	761	790	821
45°	750	788	849
50°	735	794	881
55°	714	808	916
60°	683	826	964
65°	636	852	1027
70°	563	891	1118
75°	472	953	939
80°	377	753	781
85°	296	509	466



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.0	3.0
10°-20°	161.1	8.7
20°-30°	246.1	13.2
30°-40°	300.9	16.2
40°-50°	322.1	17.3
50°-60°	308.9	16.6
60°-70°	260.8	14.0
70°-80°	166.7	9.0
80°-90°	39.4	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°	463.2	24.9
0°-40°	764.1	41.0
0°-60°	1395.1	74.9
0°-90°	1862.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1862.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	590	590	590	590	590	
5°	591	588	589	588	588	56
15°	569	567	571	573	573	161
25°	529	528	536	538	539	244
35°	469	473	482	488	493	293
45°	394	400	414	434	446	304
55°	304	314	345	376	390	272
65°	200	219	268	305	323	197
75°	91	129	183	187	181	98
85°	19	32	33	32	30	23
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	590.3	590.3	590.3	590.3	590.3
2.5°	593.0	589.4	590.3	590.3	588.4
5°	591.2	587.5	589.4	588.4	587.5
7.5°	587.5	584.8	586.6	586.6	585.7
10°	582.9	580.2	582.0	582.9	582.9
12.5°	576.5	574.7	577.4	577.4	578.4
15°	569.2	567.4	571.0	572.9	572.9
17.5°	560.9	560.0	564.6	565.5	566.4
20°	551.8	550.9	556.4	556.4	558.2
22.5°	540.8	539.9	547.2	547.2	549.0
25°	528.9	527.9	536.2	538.0	538.9
27.5°	516.0	515.1	523.4	526.1	527.9
30°	501.4	501.4	510.5	514.2	516.9
32.5°	484.9	487.6	495.9	501.4	505.0
35°	469.3	472.9	482.1	488.5	493.1
37.5°	451.9	455.5	465.6	473.9	479.4
40°	433.5	438.1	450.0	459.2	467.4
42.5°	415.2	419.8	432.6	446.4	457.4
45°	394.1	400.5	414.3	433.5	446.4
47.5°	373.0	379.5	396.9	420.7	433.5
50°	351.0	358.4	379.5	407.0	420.7
52.5°	328.1	336.4	363.0	392.3	406.0
55°	304.3	314.4	344.6	375.8	390.5
57.5°	279.6	290.6	326.3	359.3	374.9
60°	253.9	267.6	307.1	341.9	358.4
62.5°	227.3	243.8	287.8	323.5	341.0
65°	199.8	219.1	267.6	305.2	322.6
67.5°	171.4	197.1	247.5	286.9	304.3
70°	143.0	173.2	226.4	266.7	284.1
72.5°	116.4	151.2	205.3	242.9	246.6
75°	90.7	129.2	183.3	187.0	180.6
77.5°	67.8	107.2	151.2	134.7	133.8
80°	48.6	86.2	97.2	99.9	100.8
82.5°	32.1	65.1	63.2	65.1	64.2
85°	19.2	32.1	33.0	32.1	30.2
87.5°	9.2	11.9	9.2	8.2	7.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)