

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: P263868

Luminaire Tested: **24CZ-LD5-30SE-RDP-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263868
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-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: 1717.0 lumens
Efficiency: N/A
Efficacy: 79.6 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

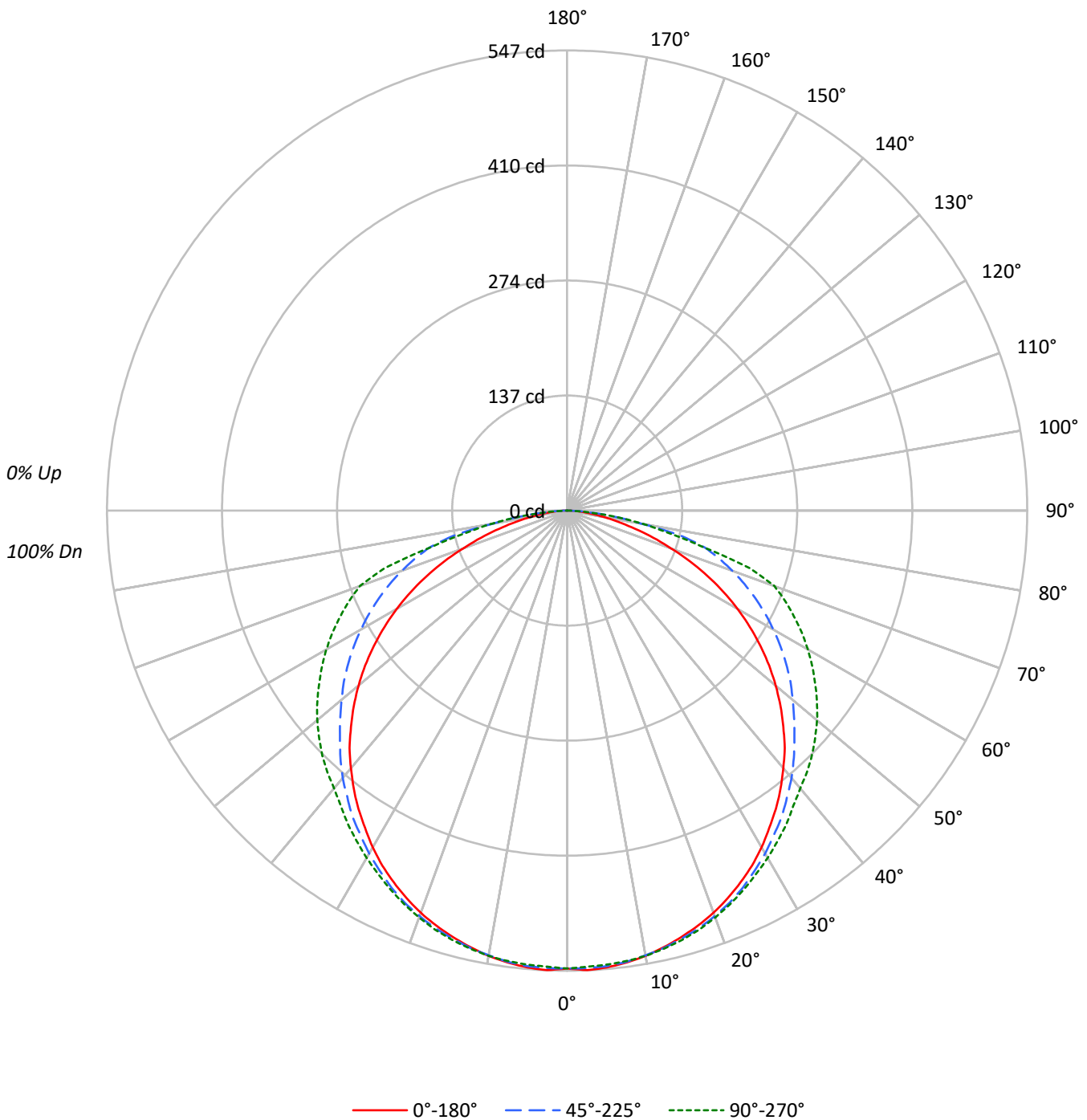
Input Watts (W): 21.576
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20			20			20			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	61	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°	732	732	732
5°	736	734	732
10°	734	733	734
15°	731	734	736
20°	729	735	737
25°	724	734	738
30°	718	731	741
35°	711	730	747
40°	702	729	757
45°	691	727	783
50°	678	732	812
55°	658	745	845
60°	630	762	889
65°	587	786	947
70°	518	821	1031
75°	435	879	866
80°	347	694	721
85°	273	469	431



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.6	3.0
10°-20°	148.6	8.7
20°-30°	226.9	13.2
30°-40°	277.4	16.2
40°-50°	297.0	17.3
50°-60°	284.9	16.6
60°-70°	240.5	14.0
70°-80°	153.7	9.0
80°-90°	36.4	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°	427.1	24.9
0°-40°	704.6	41.0
0°-60°	1286.4	74.9
0°-90°	1717.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1717.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	544	544	544	544	544	
5°	545	542	544	543	542	52
15°	525	523	527	528	528	148
25°	488	487	494	496	497	225
35°	433	436	445	450	455	271
45°	363	369	382	400	412	280
55°	281	290	318	346	360	250
65°	184	202	247	281	298	182
75°	84	119	169	172	166	90
85°	18	30	30	30	28	21
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	544.3	544.3	544.3	544.3	544.3
2.5°	546.8	543.5	544.3	544.3	542.6
5°	545.1	541.8	543.5	542.6	541.8
7.5°	541.8	539.2	540.9	540.9	540.1
10°	537.5	535.0	536.7	537.5	537.5
12.5°	531.6	529.9	532.5	532.5	533.3
15°	524.9	523.2	526.6	528.2	528.2
17.5°	517.3	516.4	520.6	521.5	522.3
20°	508.8	508.0	513.0	513.0	514.7
22.5°	498.7	497.8	504.6	504.6	506.3
25°	487.7	486.8	494.4	496.1	497.0
27.5°	475.8	475.0	482.6	485.1	486.8
30°	462.3	462.3	470.8	474.2	476.7
32.5°	447.1	449.6	457.2	462.3	465.7
35°	432.7	436.1	444.6	450.5	454.7
37.5°	416.7	420.1	429.4	437.0	442.0
40°	399.8	404.0	415.0	423.4	431.0
42.5°	382.9	387.1	398.9	411.6	421.8
45°	363.4	369.3	382.0	399.8	411.6
47.5°	344.0	349.9	366.0	387.9	399.8
50°	323.7	330.5	349.9	375.3	387.9
52.5°	302.6	310.2	334.7	361.7	374.4
55°	280.6	289.9	317.8	346.5	360.1
57.5°	257.8	267.9	300.9	331.3	345.7
60°	234.1	246.8	283.1	315.3	330.5
62.5°	209.6	224.8	265.4	298.4	314.4
65°	184.3	202.0	246.8	281.4	297.5
67.5°	158.1	181.7	228.2	264.5	280.6
70°	131.8	159.7	208.8	246.0	262.0
72.5°	107.3	139.5	189.3	224.0	227.4
75°	83.7	119.2	169.0	172.4	166.5
77.5°	62.5	98.9	139.5	124.2	123.4
80°	44.8	79.4	89.6	92.1	93.0
82.5°	29.6	60.0	58.3	60.0	59.2
85°	17.7	29.6	30.4	29.6	27.9
87.5°	8.5	11.0	8.5	7.6	6.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)