

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: P263869

Luminaire Tested: **24CZ-LD5-30SE-RDP-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263869
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-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: 1804.0 lumens
Efficiency: N/A
Efficacy: 82.5 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

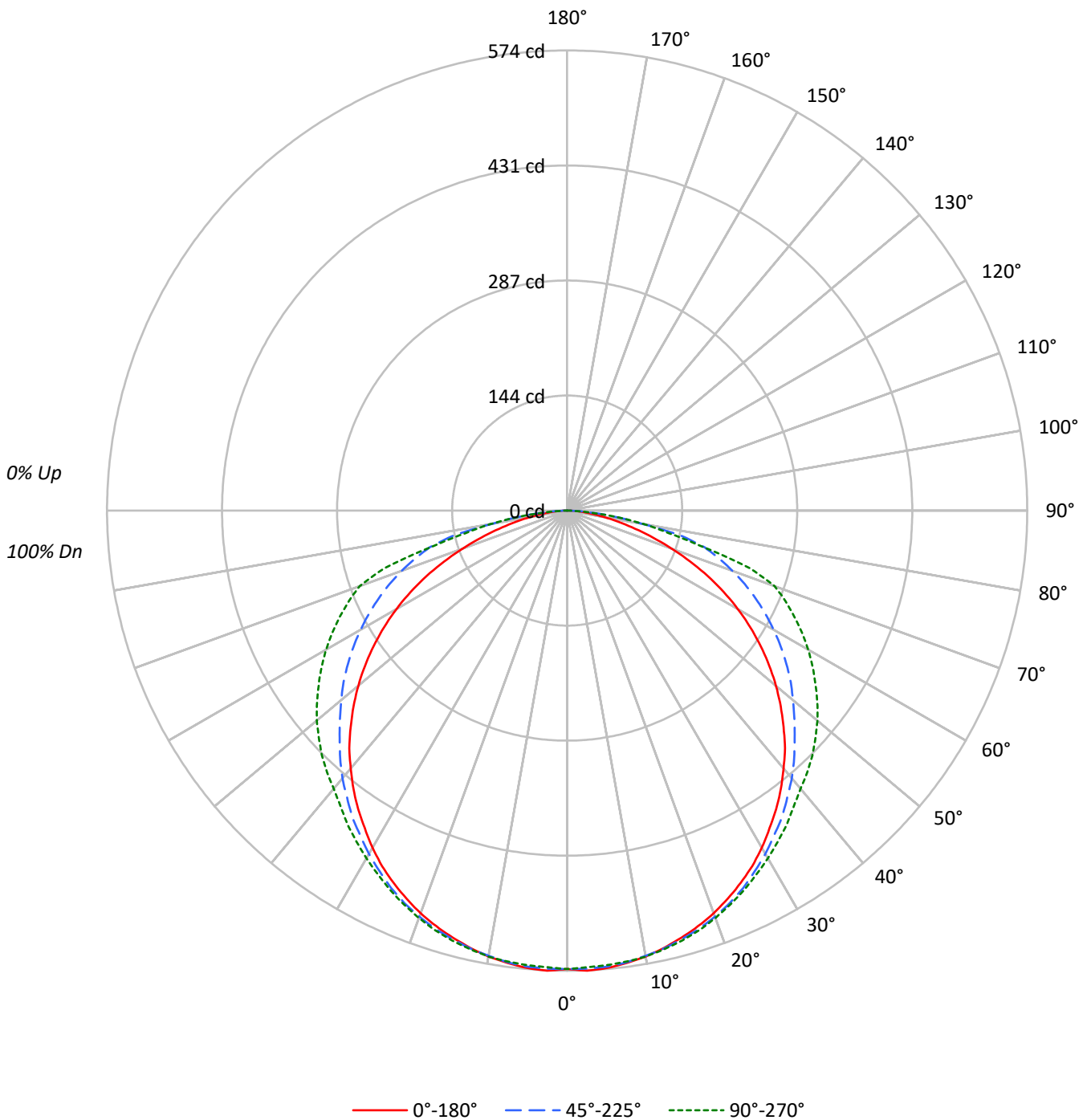
Input Watts (W): 21.855
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	769	769	769
5°	774	771	769
10°	772	770	772
15°	768	771	773
20°	765	772	774
25°	761	771	775
30°	755	768	778
35°	747	767	785
40°	738	766	795
45°	726	764	823
50°	712	769	853
55°	692	783	887
60°	662	801	934
65°	616	826	995
70°	545	863	1083
75°	457	923	909
80°	365	729	757
85°	287	494	452



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.2	3.0
10°-20°	156.1	8.7
20°-30°	238.4	13.2
30°-40°	291.5	16.2
40°-50°	312.0	17.3
50°-60°	299.3	16.6
60°-70°	252.7	14.0
70°-80°	161.5	9.0
80°-90°	38.2	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°	448.8	24.9
0°-40°	740.3	41.0
0°-60°	1351.6	74.9
0°-90°	1804.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1804.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	572	572	572	572	572	
5°	573	569	571	570	569	54
15°	552	550	553	555	555	156
25°	512	512	520	521	522	236
35°	455	458	467	473	478	284
45°	382	388	401	420	432	295
55°	295	305	334	364	378	263
65°	194	212	259	296	313	191
75°	88	125	178	181	175	95
85°	19	31	32	31	29	22
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	571.9	571.9	571.9	571.9	571.9
2.5°	574.5	571.0	571.9	571.9	570.1
5°	572.8	569.2	571.0	570.1	569.2
7.5°	569.2	566.6	568.3	568.3	567.4
10°	564.8	562.1	563.9	564.8	564.8
12.5°	558.6	556.8	559.5	559.5	560.3
15°	551.5	549.7	553.2	555.0	555.0
17.5°	543.5	542.6	547.0	547.9	548.8
20°	534.6	533.7	539.0	539.0	540.8
22.5°	523.9	523.0	530.1	530.1	531.9
25°	512.4	511.5	519.5	521.3	522.2
27.5°	500.0	499.1	507.1	509.7	511.5
30°	485.7	485.7	494.6	498.2	500.8
32.5°	469.8	472.4	480.4	485.7	489.3
35°	454.7	458.2	467.1	473.3	477.8
37.5°	437.8	441.3	451.1	459.1	464.4
40°	420.0	424.5	436.0	444.9	452.9
42.5°	402.3	406.7	419.1	432.5	443.1
45°	381.8	388.1	401.4	420.0	432.5
47.5°	361.4	367.6	384.5	407.6	420.0
50°	340.1	347.2	367.6	394.3	407.6
52.5°	317.9	325.9	351.7	380.1	393.4
55°	294.8	304.6	333.9	364.1	378.3
57.5°	270.8	281.5	316.1	348.1	363.2
60°	246.0	259.3	297.5	331.2	347.2
62.5°	220.2	236.2	278.8	313.5	330.3
65°	193.6	212.2	259.3	295.7	312.6
67.5°	166.1	190.9	239.8	277.9	294.8
70°	138.5	167.8	219.3	258.4	275.3
72.5°	112.8	146.5	198.9	235.3	238.9
75°	87.9	125.2	177.6	181.2	174.9
77.5°	65.7	103.9	146.5	130.5	129.7
80°	47.1	83.5	94.1	96.8	97.7
82.5°	31.1	63.0	61.3	63.0	62.2
85°	18.6	31.1	32.0	31.1	29.3
87.5°	8.9	11.5	8.9	8.0	7.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)