

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: P263734

Luminaire Tested: **24CZ-LD5-30SE-RDP-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263734
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-3500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2059.0 lumens
Efficiency: N/A
Efficacy: 94.2 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

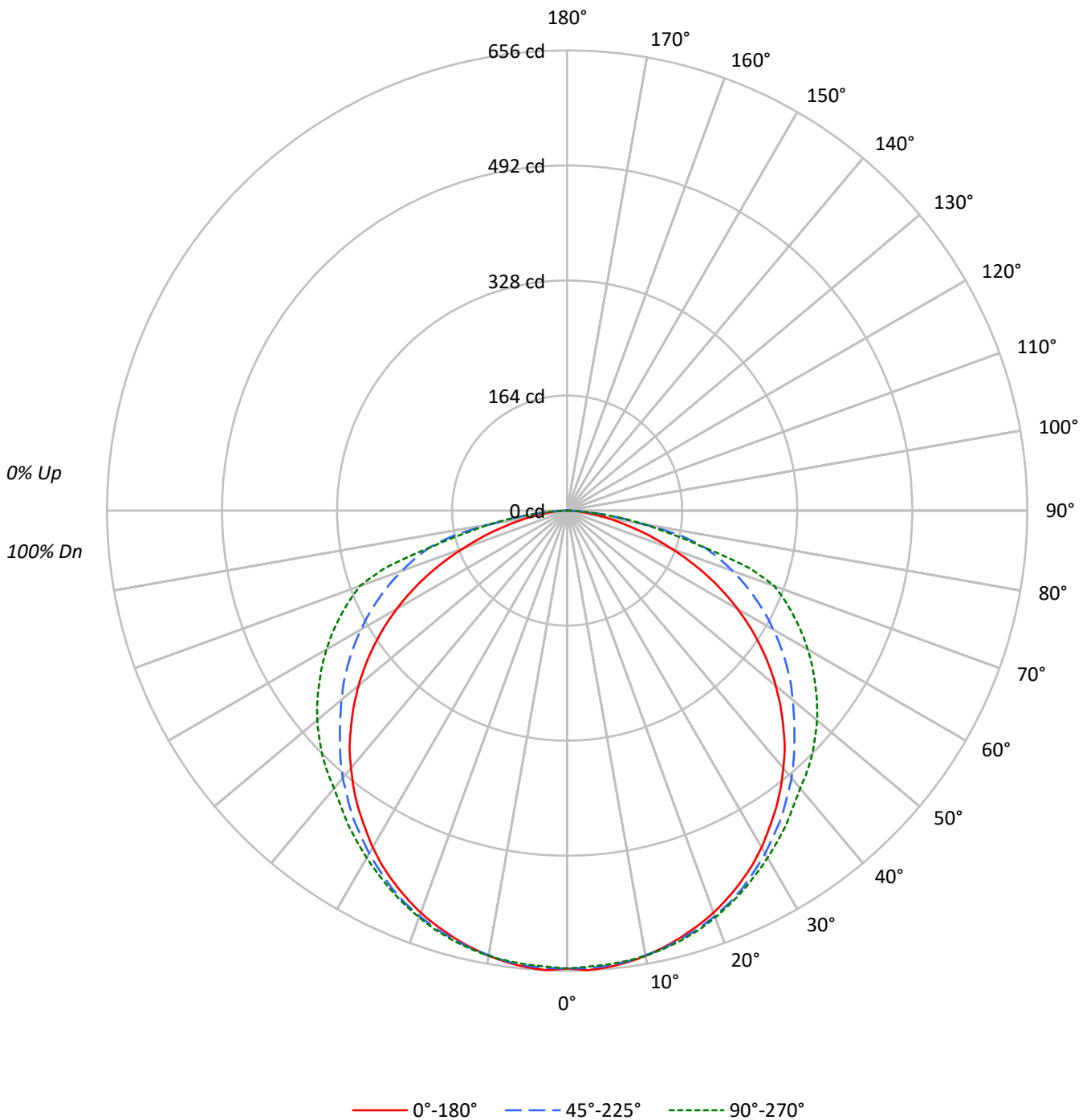
Input Watts (W): 21.855
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20			
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°	878	878	878
5°	883	880	878
10°	881	879	881
15°	877	880	882
20°	874	881	884
25°	868	880	885
30°	861	877	888
35°	852	876	896
40°	842	874	908
45°	829	872	939
50°	813	878	974
55°	789	894	1013
60°	756	914	1066
65°	704	942	1136
70°	622	985	1236
75°	521	1054	1038
80°	416	832	864
85°	329	563	516



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.9	3.0
10°-20°	178.2	8.7
20°-30°	272.1	13.2
30°-40°	332.7	16.2
40°-50°	356.1	17.3
50°-60°	341.6	16.6
60°-70°	288.4	14.0
70°-80°	184.3	9.0
80°-90°	43.6	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°	512.2	24.9
0°-40°	844.9	41.0
0°-60°	1542.6	74.9
0°-90°	2059.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2059.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	653	653	653	653	653	
5°	654	650	652	651	650	62
15°	629	627	631	634	634	178
25°	585	584	593	595	596	270
35°	519	523	533	540	545	324
45°	436	443	458	479	494	336
55°	336	348	381	416	432	300
65°	221	242	296	338	357	218
75°	100	143	203	207	200	108
85°	21	36	36	36	33	26
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	652.7	652.7	652.7	652.7	652.7
2.5°	655.8	651.7	652.7	652.7	650.7
5°	653.7	649.7	651.7	650.7	649.7
7.5°	649.7	646.6	648.7	648.7	647.7
10°	644.6	641.6	643.6	644.6	644.6
12.5°	637.5	635.5	638.5	638.5	639.5
15°	629.4	627.4	631.4	633.5	633.5
17.5°	620.3	619.3	624.3	625.4	626.4
20°	610.2	609.1	615.2	615.2	617.2
22.5°	598.0	597.0	605.1	605.1	607.1
25°	584.8	583.8	592.9	594.9	596.0
27.5°	570.6	569.6	578.7	581.8	583.8
30°	554.4	554.4	564.5	568.6	571.6
32.5°	536.2	539.2	548.3	554.4	558.5
35°	518.9	523.0	533.1	540.2	545.3
37.5°	499.7	503.7	514.9	524.0	530.1
40°	479.4	484.5	497.6	507.8	516.9
42.5°	459.1	464.2	478.4	493.6	505.8
45°	435.8	442.9	458.1	479.4	493.6
47.5°	412.5	419.6	438.9	465.2	479.4
50°	388.2	396.3	419.6	450.0	465.2
52.5°	362.8	372.0	401.4	433.8	449.0
55°	336.5	347.6	381.1	415.6	431.8
57.5°	309.1	321.3	360.8	397.3	414.5
60°	280.8	296.0	339.5	378.1	396.3
62.5°	251.4	269.6	318.3	357.8	377.0
65°	221.0	242.2	296.0	337.5	356.8
67.5°	189.5	217.9	273.7	317.2	336.5
70°	158.1	191.6	250.3	294.9	314.2
72.5°	128.7	167.2	227.0	268.6	272.6
75°	100.3	142.9	202.7	206.8	199.7
77.5°	75.0	118.6	167.2	149.0	148.0
80°	53.7	95.3	107.4	110.5	111.5
82.5°	35.5	72.0	69.9	72.0	70.9
85°	21.3	35.5	36.5	35.5	33.4
87.5°	10.1	13.2	10.1	9.1	8.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)