

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: P263358

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263358
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25695)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ-LD5-30-SQP-UNV-L92765-W2A1-U-3000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH SQP LENS
Light Source: (336) 90 CRI LEDS TUNED AT 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1656.0 lumens
Efficiency: N/A
Efficacy: 85.2 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.31 / 1.42
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

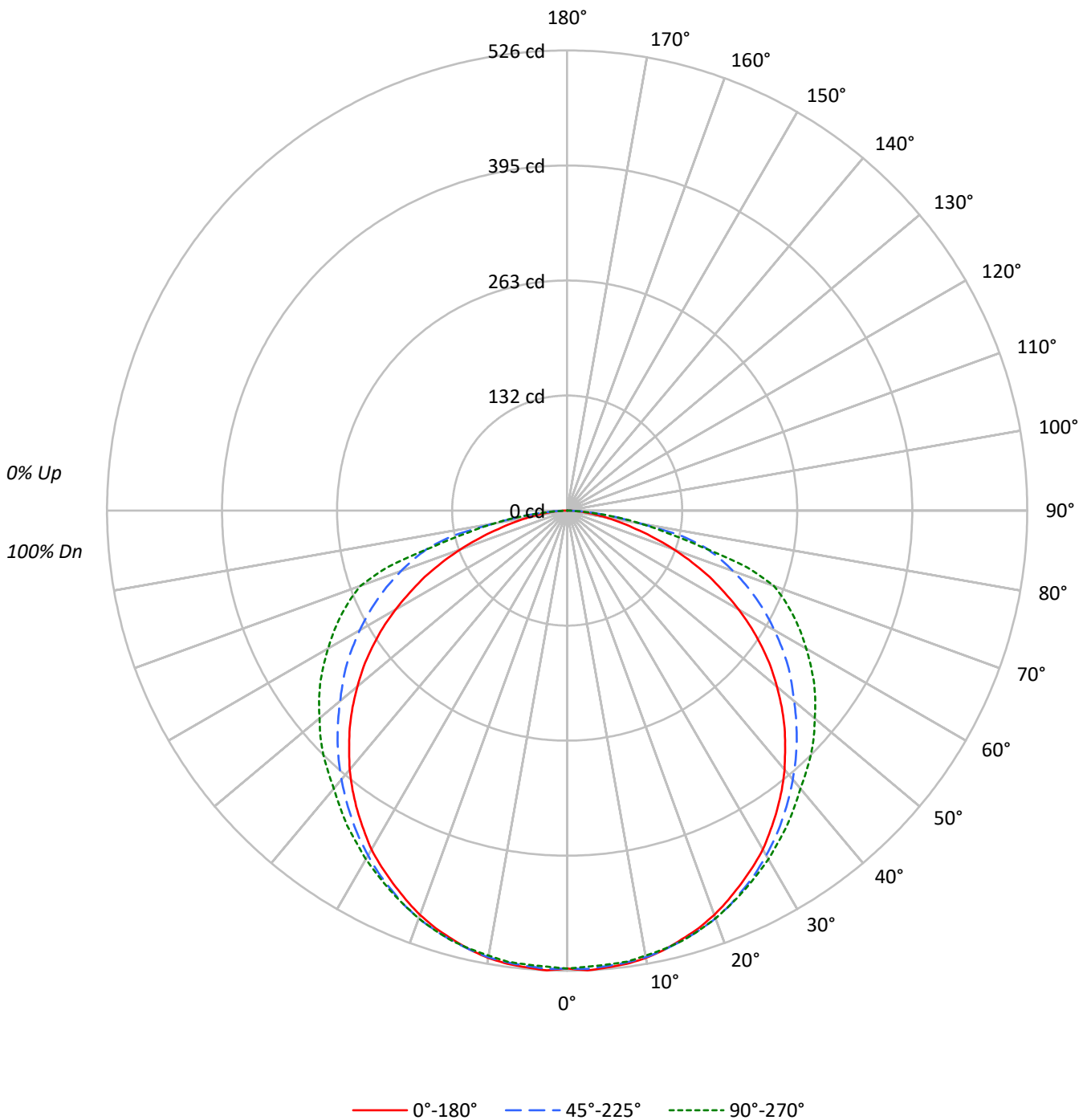
Input Watts (W): 19.437
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	63	58	56
4	81	68	59	52	79	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	62	49	40	34	47	39	34	45	39	33	44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	29	28
9	55	41	33	27	54	41	33	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°	704	704	704
5°	708	706	704
10°	709	708	706
15°	707	709	709
20°	704	710	710
25°	698	709	711
30°	695	707	715
35°	687	705	721
40°	679	705	729
45°	669	706	750
50°	655	709	773
55°	638	722	809
60°	610	737	849
65°	572	760	910
70°	511	794	989
75°	423	849	818
80°	345	656	662
85°	278	435	409



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.7	3.0
10°-20°	143.5	8.7
20°-30°	219.3	13.2
30°-40°	268.2	16.2
40°-50°	286.9	17.3
50°-60°	274.8	16.6
60°-70°	232.4	14.0
70°-80°	147.3	8.9
80°-90°	33.9	2.0
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°	412.5	24.9
0°-40°	680.6	41.1
0°-60°	1242.3	75.0
0°-90°	1656.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1656.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	524	524	524	524	524	
5°	524	522	523	522	521	50
15°	507	506	509	509	509	143
25°	470	470	477	479	479	217
35°	418	421	429	435	439	262
45°	352	358	371	387	394	271
55°	272	281	308	334	345	243
65°	180	197	239	271	286	177
75°	81	115	163	162	157	88
85°	18	27	28	26	26	21
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	523.5	523.5	523.5	523.5	523.5
2.5°	526.1	523.5	524.3	523.5	521.8
5°	524.3	521.8	522.6	521.8	520.9
7.5°	522.6	520.1	520.9	520.1	520.1
10°	519.2	516.6	518.4	517.5	516.6
12.5°	514.1	512.4	514.1	513.2	513.2
15°	507.2	506.4	509.0	509.0	509.0
17.5°	500.4	499.5	503.0	503.0	503.0
20°	491.8	491.0	496.1	496.1	496.1
22.5°	481.6	480.7	487.6	487.6	487.6
25°	470.5	470.5	477.3	479.0	479.0
27.5°	459.3	459.3	467.0	469.6	469.6
30°	447.4	447.4	455.1	458.5	460.2
32.5°	432.8	434.5	443.1	447.4	449.1
35°	418.3	420.8	429.4	435.4	438.8
37.5°	402.9	405.5	415.7	422.6	426.8
40°	386.6	390.1	401.2	409.7	414.9
42.5°	368.7	373.8	386.6	397.8	404.6
45°	351.6	357.5	371.2	386.6	394.3
47.5°	332.7	339.6	355.0	374.7	382.4
50°	313.1	319.9	338.7	361.0	369.5
52.5°	293.4	301.1	323.3	347.3	357.5
55°	272.0	280.6	307.9	333.6	344.7
57.5°	249.8	260.0	290.8	318.2	330.2
60°	226.7	239.5	273.7	302.8	315.6
62.5°	202.7	218.1	256.6	287.4	301.1
65°	179.6	196.7	238.7	271.2	285.7
67.5°	154.8	176.2	220.7	255.8	269.4
70°	130.0	154.8	201.9	237.8	251.5
72.5°	105.2	135.2	183.1	215.6	215.6
75°	81.3	114.6	163.4	162.5	157.4
77.5°	61.6	95.8	134.3	114.6	115.5
80°	44.5	77.0	84.7	84.7	85.5
82.5°	29.9	59.0	54.7	53.9	55.6
85°	18.0	27.4	28.2	25.7	26.5
87.5°	8.6	9.4	7.7	5.1	5.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)