

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: P263448

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263448
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-LD5-30SE-SQP-UNV-L92765-W2A1-U-3000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SQP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1636.0 lumens
Efficiency: N/A
Efficacy: 75.8 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

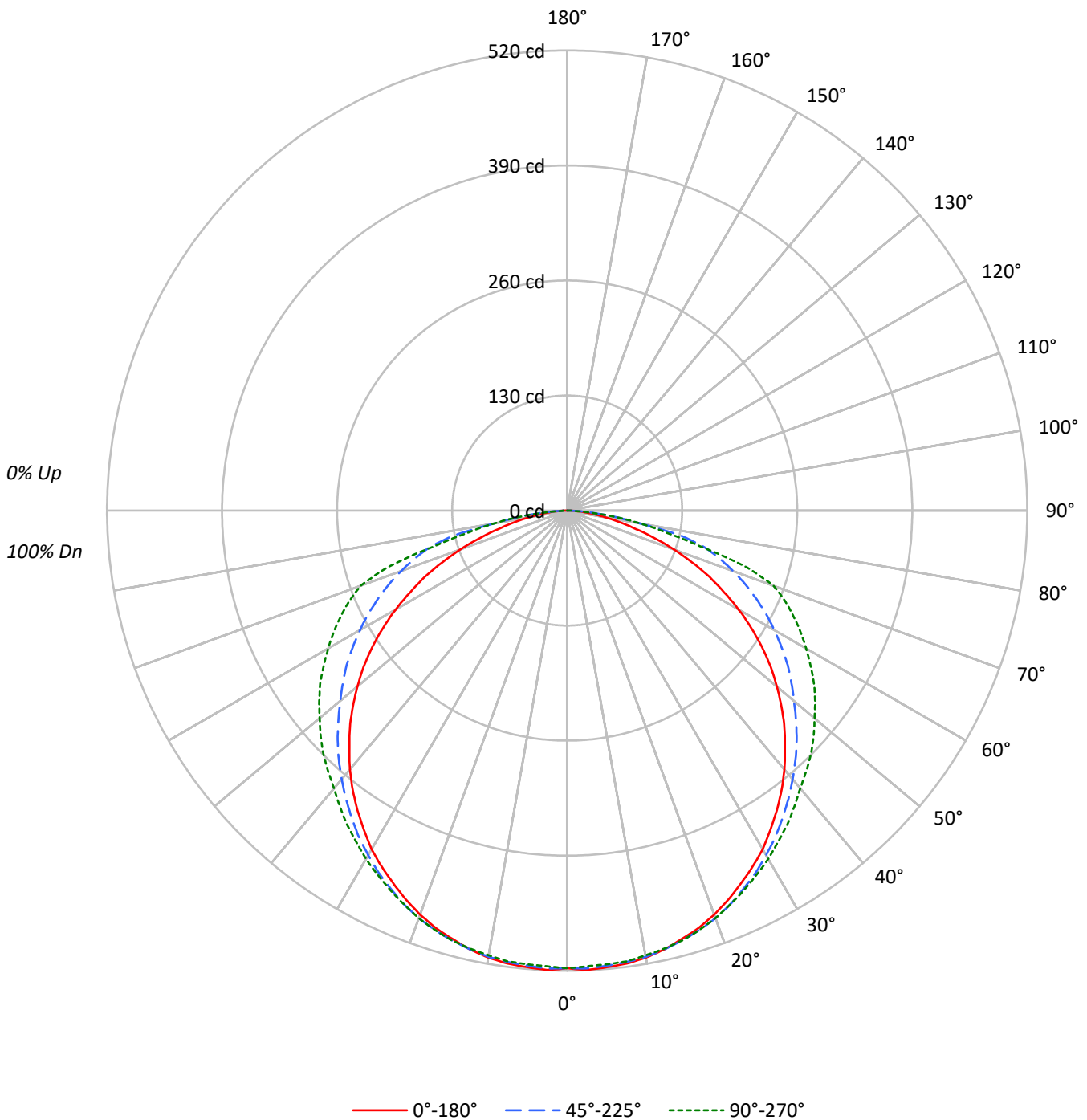
Input Watts (W): 21.576
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
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°	696	696	696
5°	700	697	695
10°	701	700	697
15°	698	700	700
20°	696	702	702
25°	690	700	703
30°	687	699	706
35°	679	697	712
40°	671	696	720
45°	661	698	741
50°	647	700	764
55°	630	714	799
60°	603	728	839
65°	565	751	898
70°	505	784	977
75°	417	839	808
80°	340	649	655
85°	273	431	404



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.1	3.0
10°-20°	141.7	8.7
20°-30°	216.6	13.2
30°-40°	264.9	16.2
40°-50°	283.5	17.3
50°-60°	271.5	16.6
60°-70°	229.6	14.0
70°-80°	145.6	8.9
80°-90°	33.5	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°	407.5	24.9
0°-40°	672.4	41.1
0°-60°	1227.3	75.0
0°-90°	1636.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1636.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	517	517	517	517	517	
5°	518	516	516	516	515	49
15°	501	500	503	503	503	142
25°	465	465	472	473	473	214
35°	413	416	424	430	434	259
45°	347	353	367	382	390	268
55°	269	277	304	330	341	240
65°	178	194	236	268	282	175
75°	80	113	161	161	156	87
85°	18	27	28	25	26	21
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	517.2	517.2	517.2	517.2	517.2
2.5°	519.7	517.2	518.0	517.2	515.5
5°	518.0	515.5	516.3	515.5	514.6
7.5°	516.3	513.8	514.6	513.8	513.8
10°	512.9	510.4	512.1	511.3	510.4
12.5°	507.9	506.2	507.9	507.0	507.0
15°	501.1	500.3	502.8	502.8	502.8
17.5°	494.4	493.5	496.9	496.9	496.9
20°	485.9	485.1	490.1	490.1	490.1
22.5°	475.8	474.9	481.7	481.7	481.7
25°	464.8	464.8	471.5	473.2	473.2
27.5°	453.8	453.8	461.4	463.9	463.9
30°	442.0	442.0	449.6	452.9	454.6
32.5°	427.6	429.3	437.7	442.0	443.7
35°	413.2	415.8	424.2	430.1	433.5
37.5°	398.0	400.6	410.7	417.5	421.7
40°	382.0	385.3	396.3	404.8	409.8
42.5°	364.2	369.3	382.0	392.9	399.7
45°	347.3	353.2	366.8	382.0	389.6
47.5°	328.7	335.5	350.7	370.1	377.7
50°	309.3	316.0	334.6	356.6	365.1
52.5°	289.9	297.5	319.4	343.1	353.2
55°	268.7	277.2	304.2	329.6	340.6
57.5°	246.8	256.9	287.3	314.4	326.2
60°	223.9	236.6	270.4	299.1	311.8
62.5°	200.3	215.5	253.5	283.9	297.5
65°	177.5	194.4	235.8	267.9	282.2
67.5°	153.0	174.1	218.0	252.7	266.2
70°	128.4	153.0	199.4	234.9	248.4
72.5°	103.9	133.5	180.8	213.0	213.0
75°	80.3	113.2	161.4	160.6	155.5
77.5°	60.8	94.6	132.7	113.2	114.1
80°	43.9	76.1	83.7	83.7	84.5
82.5°	29.6	58.3	54.1	53.2	54.9
85°	17.7	27.0	27.9	25.4	26.2
87.5°	8.5	9.3	7.6	5.1	5.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)