

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: P263454

Luminaire Tested: **24CZ-LD5-30SE-SQP-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263454
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-5700K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SQP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1893.0 lumens
Efficiency: N/A
Efficacy: 84.5 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

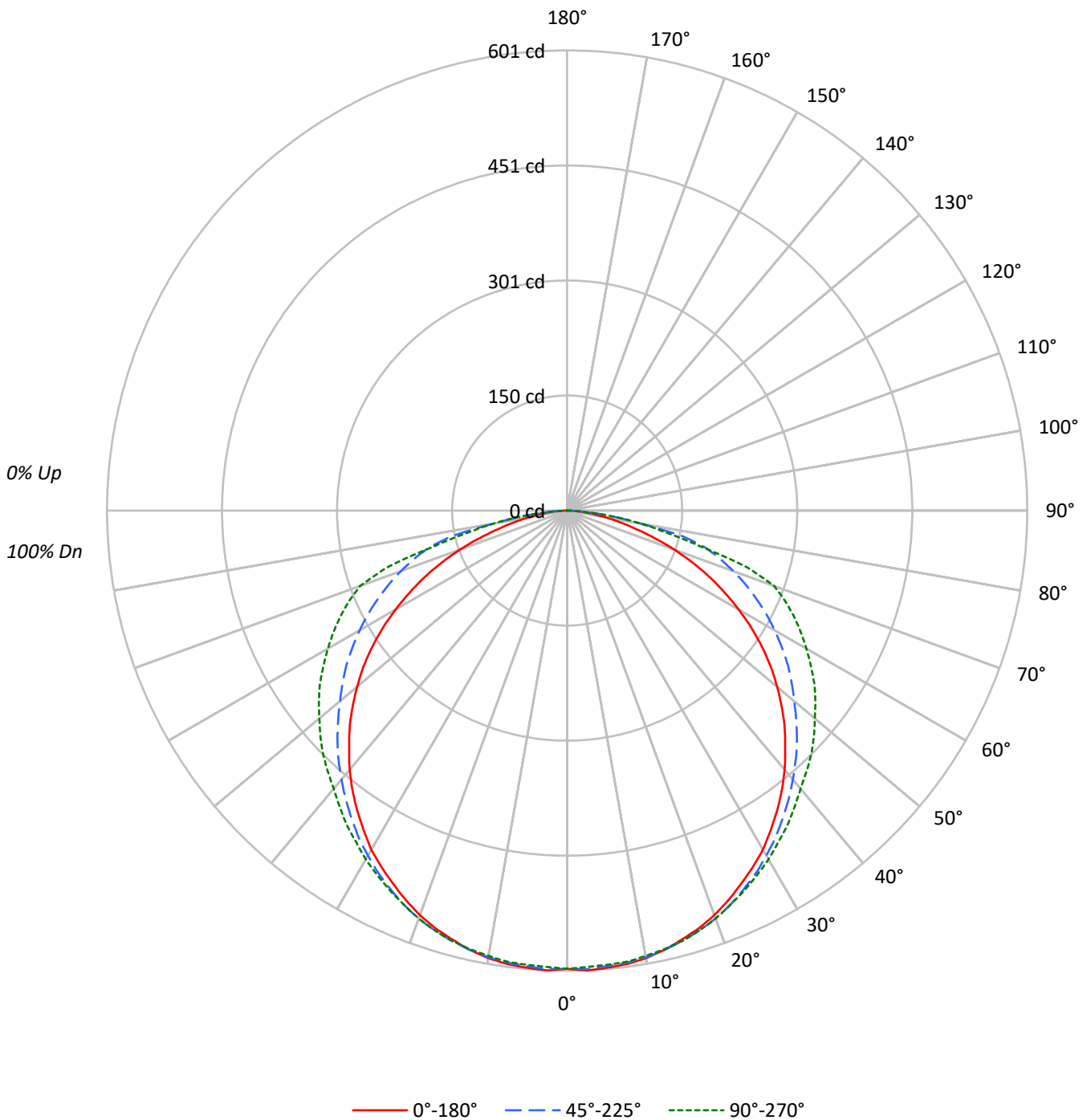
Input Watts (W): 22.413
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	108	103	98	94	105	101	97	93	96	93	90	92	90	87	89	87	84	82					82			
2	98	89	82	76	95	87	80	75	83	78	73	80	75	71	77	73	70	67					67			
3	89	78	69	62	86	76	68	62	73	66	60	70	64	59	67	63	58	56					56			
4	81	68	59	52	79	67	58	52	64	57	51	62	56	50	60	54	50	47					47			
5	74	61	51	45	72	60	51	44	57	50	44	55	49	43	54	48	43	41					41			
6	68	55	45	39	66	54	45	38	52	44	38	50	43	38	48	42	37	35					35			
7	63	49	40	34	62	49	40	34	47	39	34	45	39	33	44	38	33	31					31			
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	29	28					28			
9	55	41	33	27	54	41	33	27	39	32	27	38	32	27	37	31	27	25					25			
10	51	38	30	24	50	37	30	24	36	29	24	35	29	24	35	28	24	22					22			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	805	805	805
5°	810	807	804
10°	811	810	807
15°	808	810	810
20°	805	812	812
25°	798	810	813
30°	795	808	817
35°	785	806	824
40°	776	805	833
45°	765	808	858
50°	749	810	884
55°	729	826	924
60°	697	842	971
65°	654	869	1040
70°	585	908	1131
75°	483	971	935
80°	394	750	758
85°	316	499	468



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.8	3.0
10°-20°	164.0	8.7
20°-30°	250.6	13.2
30°-40°	306.6	16.2
40°-50°	328.0	17.3
50°-60°	314.1	16.6
60°-70°	265.7	14.0
70°-80°	168.4	8.9
80°-90°	38.8	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°	471.5	24.9
0°-40°	778.0	41.1
0°-60°	1420.1	75.0
0°-90°	1893.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1893.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	598	598	598	598	598	
5°	599	596	597	596	596	57
15°	580	579	582	582	582	164
25°	538	538	546	548	548	248
35°	478	481	491	498	502	299
45°	402	409	424	442	451	310
55°	311	321	352	381	394	277
65°	205	225	273	310	327	202
75°	93	131	187	186	180	101
85°	20	31	32	29	30	24
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	598.4	598.4	598.4	598.4	598.4
2.5°	601.3	598.4	599.4	598.4	596.5
5°	599.4	596.5	597.4	596.5	595.5
7.5°	597.4	594.5	595.5	594.5	594.5
10°	593.5	590.6	592.5	591.6	590.6
12.5°	587.7	585.7	587.7	586.7	586.7
15°	579.8	578.9	581.8	581.8	581.8
17.5°	572.0	571.0	574.9	574.9	574.9
20°	562.2	561.3	567.1	567.1	567.1
22.5°	550.5	549.5	557.3	557.3	557.3
25°	537.8	537.8	545.6	547.6	547.6
27.5°	525.1	525.1	533.9	536.8	536.8
30°	511.4	511.4	520.2	524.1	526.1
32.5°	494.8	496.7	506.5	511.4	513.3
35°	478.1	481.1	490.9	497.7	501.6
37.5°	460.5	463.5	475.2	483.0	487.9
40°	442.0	445.9	458.6	468.4	474.2
42.5°	421.4	427.3	442.0	454.7	462.5
45°	401.9	408.7	424.4	442.0	450.8
47.5°	380.4	388.2	405.8	428.3	437.1
50°	357.9	365.7	387.2	412.6	422.4
52.5°	335.4	344.2	369.6	397.0	408.7
55°	310.9	320.7	352.0	381.3	394.1
57.5°	285.5	297.3	332.5	363.7	377.4
60°	259.1	273.8	312.9	346.1	360.8
62.5°	231.7	249.3	293.3	328.5	344.2
65°	205.3	224.9	272.8	310.0	326.6
67.5°	177.0	201.4	252.3	292.4	308.0
70°	148.6	177.0	230.8	271.8	287.5
72.5°	120.3	154.5	209.2	246.4	246.4
75°	92.9	131.0	186.8	185.8	179.9
77.5°	70.4	109.5	153.5	131.0	132.0
80°	50.8	88.0	96.8	96.8	97.8
82.5°	34.2	67.5	62.6	61.6	63.6
85°	20.5	31.3	32.3	29.3	30.3
87.5°	9.8	10.8	8.8	5.9	5.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)