

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: P263072

Luminaire Tested: **24CZ-LD5-30-SQP-UNV-L83050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263072
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-L83050-W2A1-U-3000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SQP LENS
Light Source: (336) 80 CRI LEDS TUNED AT 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1921.0 lumens
Efficiency: N/A
Efficacy: 98.1 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

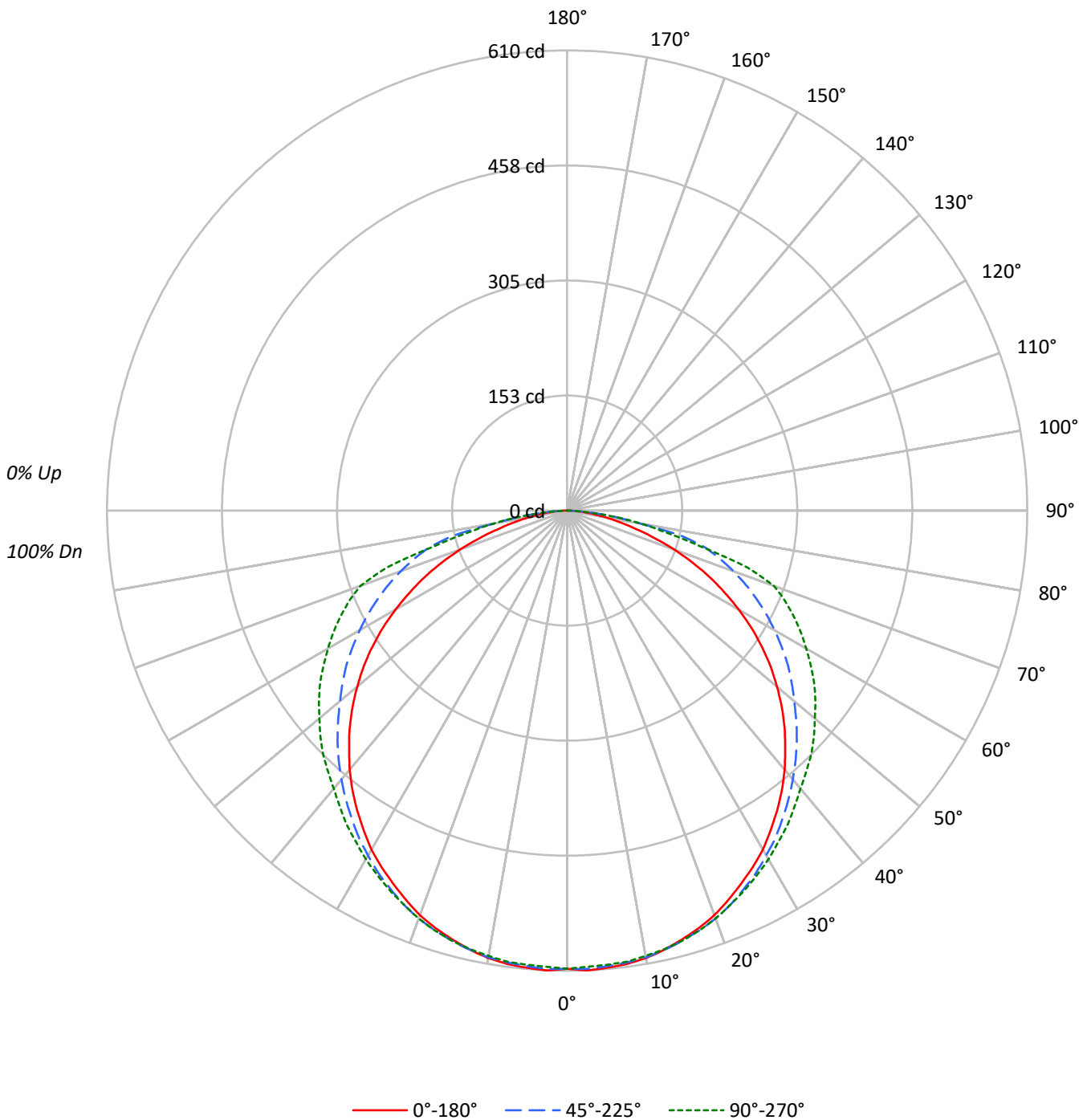
Input Watts (W): 19.583754
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	817	817	817
5°	822	819	816
10°	823	822	819
15°	820	822	822
20°	817	824	824
25°	810	822	825
30°	806	820	829
35°	797	818	836
40°	788	817	845
45°	776	819	870
50°	760	822	897
55°	740	838	938
60°	707	854	985
65°	663	881	1055
70°	593	921	1148
75°	490	985	949
80°	400	761	769
85°	321	505	475



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.7	3.0
10°-20°	166.4	8.7
20°-30°	254.4	13.2
30°-40°	311.1	16.2
40°-50°	332.9	17.3
50°-60°	318.7	16.6
60°-70°	269.6	14.0
70°-80°	170.9	8.9
80°-90°	39.3	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°	478.5	24.9
0°-40°	789.5	41.1
0°-60°	1441.1	75.0
0°-90°	1921.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1921.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	607	607	607	607	607	
5°	608	605	606	605	604	58
15°	588	587	590	590	590	166
25°	546	546	554	556	556	252
35°	485	488	498	505	509	304
45°	408	415	431	448	457	314
55°	316	326	357	387	400	281
65°	208	228	277	314	331	205
75°	94	133	190	188	183	102
85°	21	32	33	30	31	25
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	607.3	607.3	607.3	607.3	607.3
2.5°	610.2	607.3	608.3	607.3	605.3
5°	608.3	605.3	606.3	605.3	604.3
7.5°	606.3	603.3	604.3	603.3	603.3
10°	602.3	599.3	601.3	600.3	599.3
12.5°	596.3	594.4	596.3	595.4	595.4
15°	588.4	587.4	590.4	590.4	590.4
17.5°	580.5	579.5	583.4	583.4	583.4
20°	570.6	569.6	575.5	575.5	575.5
22.5°	558.6	557.7	565.6	565.6	565.6
25°	545.7	545.7	553.7	555.7	555.7
27.5°	532.8	532.8	541.8	544.8	544.8
30°	519.0	519.0	527.9	531.9	533.8
32.5°	502.1	504.1	514.0	519.0	520.9
35°	485.2	488.2	498.1	505.1	509.0
37.5°	467.4	470.3	482.2	490.2	495.1
40°	448.5	452.5	465.4	475.3	481.2
42.5°	427.7	433.6	448.5	461.4	469.3
45°	407.8	414.8	430.6	448.5	457.4
47.5°	386.0	393.9	411.8	434.6	443.5
50°	363.2	371.1	392.9	418.7	428.7
52.5°	340.3	349.3	375.1	402.9	414.8
55°	315.5	325.5	357.2	387.0	399.9
57.5°	289.7	301.6	337.4	369.1	383.0
60°	262.9	277.8	317.5	351.3	366.1
62.5°	235.2	253.0	297.7	333.4	349.3
65°	208.4	228.2	276.8	314.5	331.4
67.5°	179.6	204.4	256.0	296.7	312.6
70°	150.8	179.6	234.2	275.8	291.7
72.5°	122.0	156.8	212.3	250.0	250.0
75°	94.3	133.0	189.5	188.5	182.6
77.5°	71.4	111.1	155.8	133.0	134.0
80°	51.6	89.3	98.2	98.2	99.2
82.5°	34.7	68.5	63.5	62.5	64.5
85°	20.8	31.8	32.7	29.8	30.8
87.5°	9.9	10.9	8.9	6.0	6.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)