

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: P263075

Luminaire Tested: **24CZ-LD5-30-SQP-UNV-L83050-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263075
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-4500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SQP LENS
Light Source: (336) 80 CRI LEDS TUNED AT 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2154.0 lumens
Efficiency: N/A
Efficacy: 104.6 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

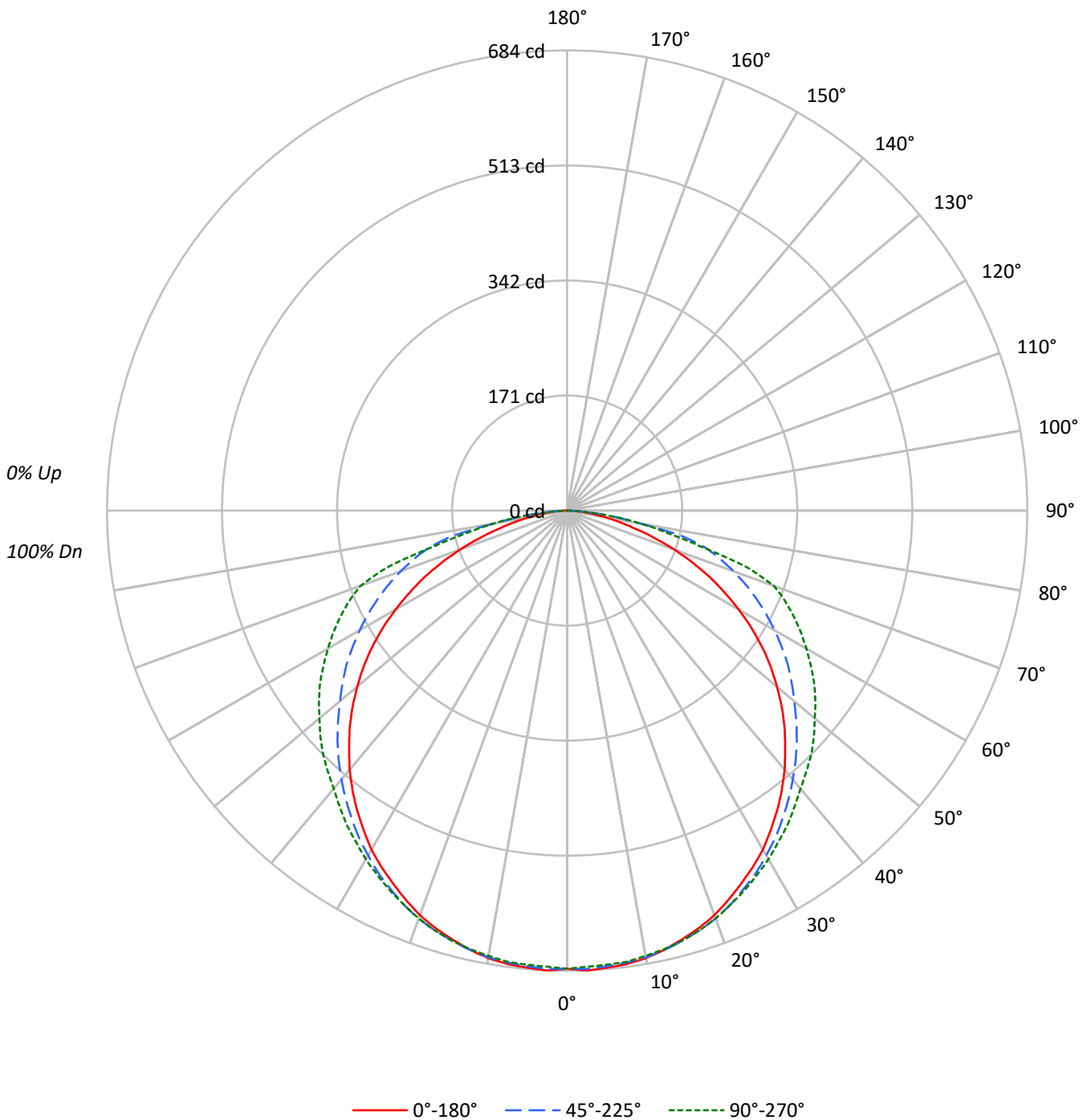
Input Watts (W): 20.584527
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	916	916	916
5°	921	918	915
10°	923	921	918
15°	919	922	922
20°	916	924	924
25°	908	922	925
30°	904	920	930
35°	894	917	938
40°	883	916	948
45°	870	919	976
50°	852	922	1006
55°	830	939	1052
60°	793	958	1105
65°	744	988	1183
70°	665	1033	1287
75°	549	1105	1064
80°	449	853	862
85°	361	567	533



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.7	3.0
10°-20°	186.6	8.7
20°-30°	285.2	13.2
30°-40°	348.8	16.2
40°-50°	373.2	17.3
50°-60°	357.4	16.6
60°-70°	302.3	14.0
70°-80°	191.6	8.9
80°-90°	44.1	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°	536.5	24.9
0°-40°	885.3	41.1
0°-60°	1615.9	75.0
0°-90°	2154.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2154.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	681	681	681	681	681	
5°	682	679	680	679	678	65
15°	660	659	662	662	662	186
25°	612	612	621	623	623	282
35°	544	547	558	566	571	340
45°	457	465	483	503	513	352
55°	354	365	400	434	448	316
65°	234	256	310	353	372	230
75°	106	149	212	211	205	115
85°	23	36	37	33	34	28
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	680.9	680.9	680.9	680.9	680.9
2.5°	684.3	680.9	682.0	680.9	678.7
5°	682.0	678.7	679.8	678.7	677.6
7.5°	679.8	676.5	677.6	676.5	676.5
10°	675.4	672.0	674.2	673.1	672.0
12.5°	668.7	666.5	668.7	667.6	667.6
15°	659.8	658.7	662.0	662.0	662.0
17.5°	650.9	649.8	654.2	654.2	654.2
20°	639.8	638.6	645.3	645.3	645.3
22.5°	626.4	625.3	634.2	634.2	634.2
25°	611.9	611.9	620.8	623.1	623.1
27.5°	597.5	597.5	607.5	610.8	610.8
30°	581.9	581.9	591.9	596.4	598.6
32.5°	563.0	565.2	576.3	581.9	584.1
35°	544.1	547.4	558.5	566.3	570.8
37.5°	524.0	527.4	540.7	549.6	555.2
40°	502.9	507.4	521.8	532.9	539.6
42.5°	479.5	486.2	502.9	517.4	526.3
45°	457.3	465.1	482.9	502.9	512.9
47.5°	432.8	441.7	461.7	487.3	497.3
50°	407.2	416.1	440.6	469.5	480.6
52.5°	381.6	391.6	420.6	451.7	465.1
55°	353.8	364.9	400.5	433.9	448.4
57.5°	324.9	338.2	378.3	413.9	429.5
60°	294.8	311.5	356.0	393.9	410.6
62.5°	263.7	283.7	333.8	373.8	391.6
65°	233.6	255.9	310.4	352.7	371.6
67.5°	201.4	229.2	287.1	332.7	350.5
70°	169.1	201.4	262.6	309.3	327.1
72.5°	136.9	175.8	238.1	280.4	280.4
75°	105.7	149.1	212.5	211.4	204.7
77.5°	80.1	124.6	174.7	149.1	150.2
80°	57.9	100.1	110.1	110.1	111.3
82.5°	38.9	76.8	71.2	70.1	72.3
85°	23.4	35.6	36.7	33.4	34.5
87.5°	11.1	12.2	10.0	6.7	6.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)