

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: P263371

Luminaire Tested: **24CZ-LD5-35-SQP-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263371
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-LD5-35-SQP-UNV-L92765-W2A1-U-5000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SQP LENS
Light Source: (336) 90 CRI LEDS TUNED AT 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2153.0 lumens
Efficiency: N/A
Efficacy: 87.0 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

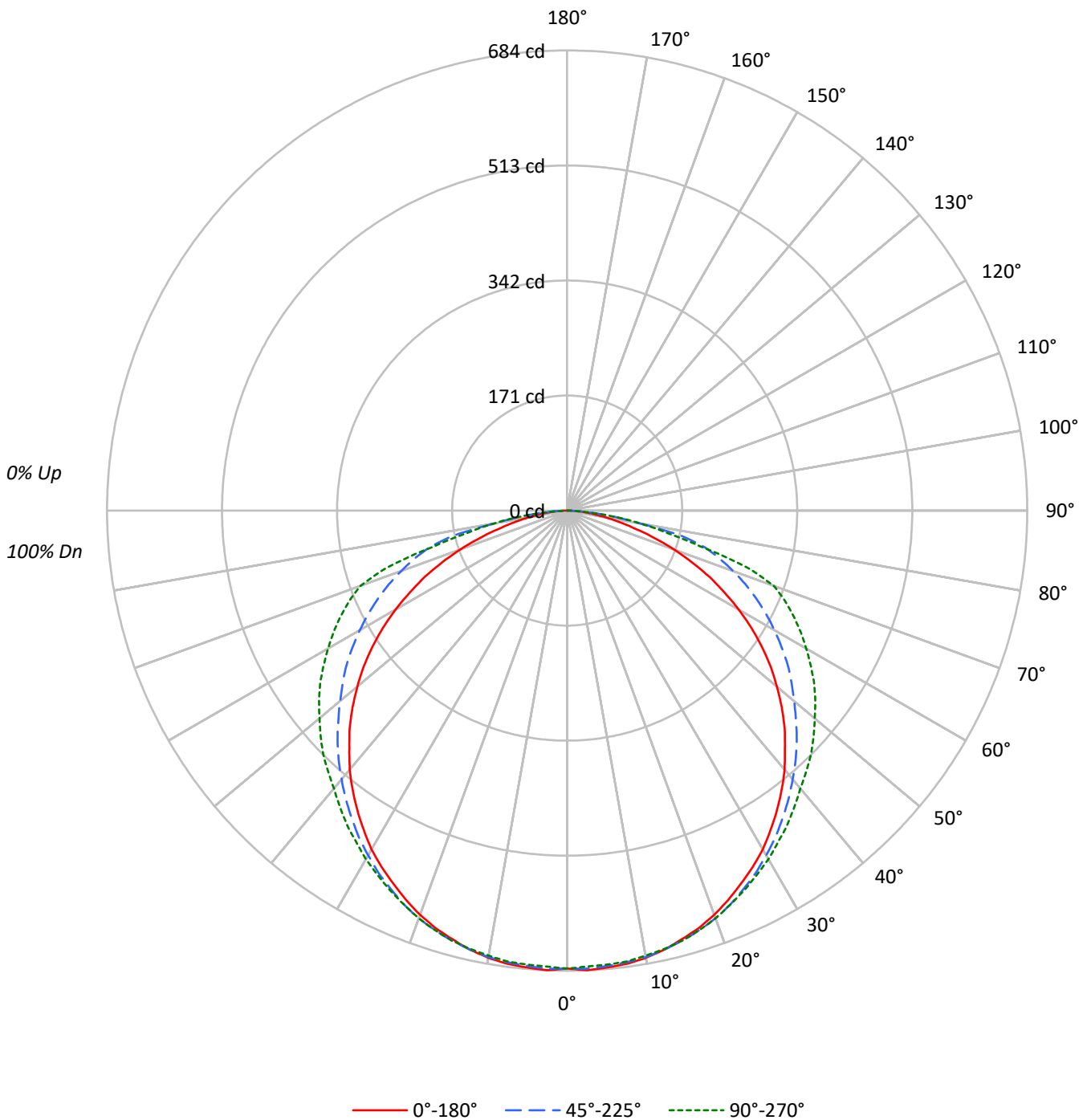
Input Watts (W): 24.738
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	922	921	918
15°	919	922	922
20°	916	924	924
25°	908	921	925
30°	904	919	930
35°	893	917	937
40°	883	916	947
45°	870	918	976
50°	852	922	1006
55°	829	939	1051
60°	793	958	1104
65°	743	988	1182
70°	665	1033	1286
75°	549	1104	1064
80°	448	853	862
85°	361	567	533



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.6	3.0
10°-20°	186.5	8.7
20°-30°	285.1	13.2
30°-40°	348.7	16.2
40°-50°	373.1	17.3
50°-60°	357.2	16.6
60°-70°	302.2	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°	536.2	24.9
0°-40°	884.9	41.1
0°-60°	1615.2	75.0
0°-90°	2153.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2153.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	681	681	681	681	681	
5°	682	678	680	678	677	65
15°	660	658	662	662	662	186
25°	612	612	621	623	623	282
35°	544	547	558	566	570	340
45°	457	465	483	503	513	352
55°	354	365	400	434	448	315
65°	234	256	310	352	371	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°	680.6	680.6	680.6	680.6	680.6
2.5°	683.9	680.6	681.7	680.6	678.4
5°	681.7	678.4	679.5	678.4	677.3
7.5°	679.5	676.2	677.3	676.2	676.2
10°	675.0	671.7	673.9	672.8	671.7
12.5°	668.4	666.1	668.4	667.3	667.3
15°	659.5	658.4	661.7	661.7	661.7
17.5°	650.6	649.5	653.9	653.9	653.9
20°	639.5	638.3	645.0	645.0	645.0
22.5°	626.1	625.0	633.9	633.9	633.9
25°	611.7	611.7	620.6	622.8	622.8
27.5°	597.2	597.2	607.2	610.5	610.5
30°	581.6	581.6	591.6	596.1	598.3
32.5°	562.7	564.9	576.1	581.6	583.9
35°	543.8	547.2	558.3	566.1	570.5
37.5°	523.8	527.1	540.5	549.4	554.9
40°	502.7	507.1	521.6	532.7	539.4
42.5°	479.3	486.0	502.7	517.1	526.0
45°	457.1	464.9	482.7	502.7	512.7
47.5°	432.6	441.5	461.5	487.1	497.1
50°	407.0	415.9	440.4	469.3	480.4
52.5°	381.4	391.5	420.4	451.5	464.9
55°	353.6	364.8	400.4	433.7	448.2
57.5°	324.7	338.1	378.1	413.7	429.3
60°	294.7	311.4	355.9	393.7	410.4
62.5°	263.6	283.6	333.6	373.7	391.5
65°	233.5	255.8	310.3	352.5	371.4
67.5°	201.3	229.1	286.9	332.5	350.3
70°	169.0	201.3	262.5	309.2	327.0
72.5°	136.8	175.7	238.0	280.2	280.2
75°	105.6	149.0	212.4	211.3	204.6
77.5°	80.1	124.6	174.6	149.0	150.1
80°	57.8	100.1	110.1	110.1	111.2
82.5°	38.9	76.7	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)