

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: P263370

Luminaire Tested: **24CZ-LD5-35-SQP-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P263370  
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-4500K  
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER  
WITH SQP LENS  
Light Source: (336) 90 CRI LEDS TUNED AT 4500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2110.0 lumens  
Efficiency: N/A  
Efficacy: 85.6 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

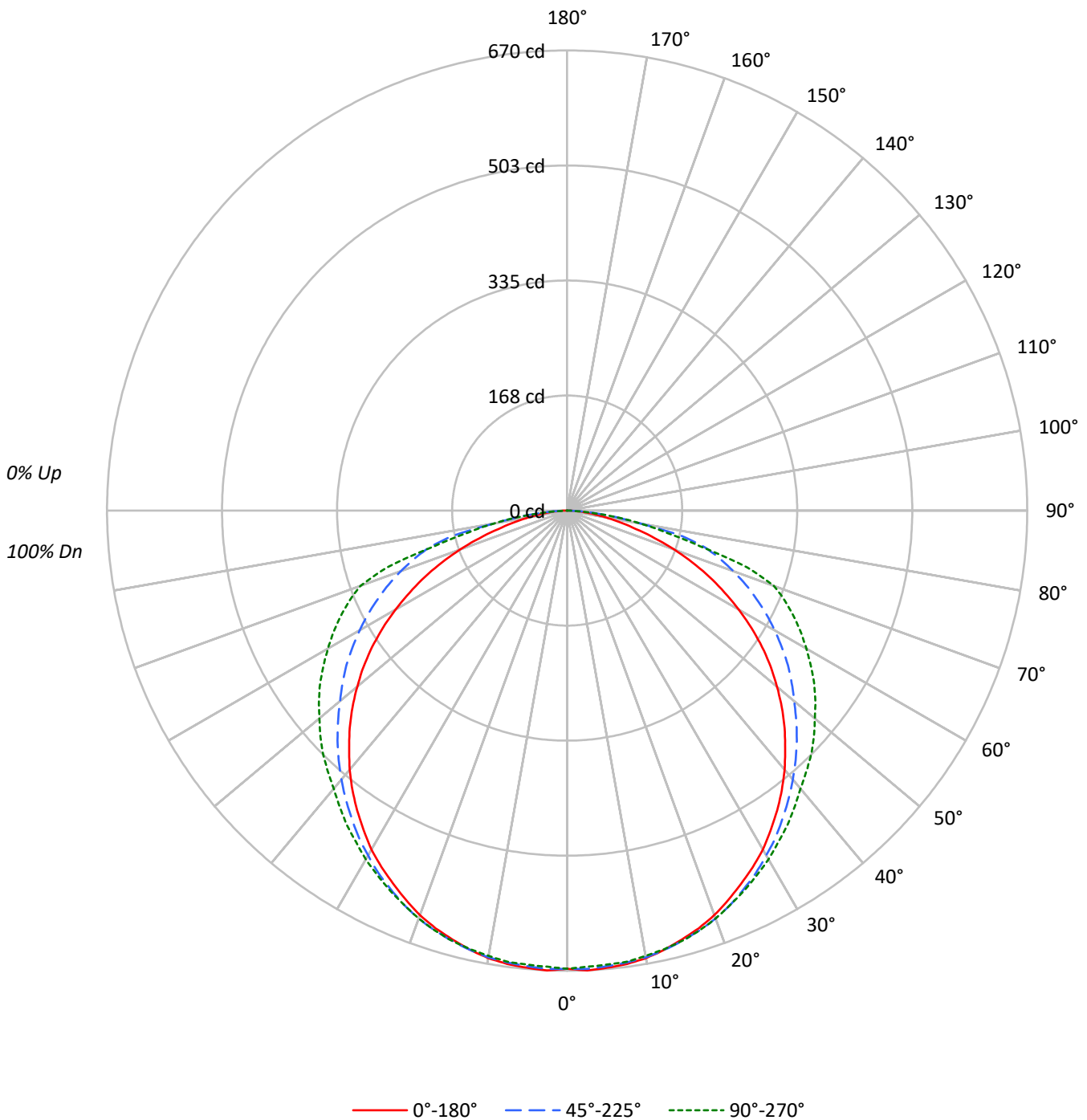
Input Watts (W): 24.645  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	897	897	897
5°	902	899	896
10°	904	902	899
15°	900	903	903
20°	897	905	905
25°	890	903	906
30°	886	901	911
35°	875	899	918
40°	865	898	928
45°	852	900	956
50°	835	903	985
55°	813	920	1030
60°	777	939	1082
65°	729	968	1159
70°	652	1012	1260
75°	538	1082	1042
80°	439	836	845
85°	354	556	522



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	63.3	3.0
10°-20°	182.8	8.7
20°-30°	279.4	13.2
30°-40°	341.7	16.2
40°-50°	365.6	17.3
50°-60°	350.1	16.6
60°-70°	296.2	14.0
70°-80°	187.7	8.9
80°-90°	43.2	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°	525.5	24.9
0°-40°	867.2	41.1
0°-60°	1582.9	75.0
0°-90°	2110.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2110.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	667	667	667	667	667	
5°	668	665	666	665	664	64
15°	646	645	648	648	648	183
25°	599	599	608	610	610	277
35°	533	536	547	555	559	333
45°	448	456	473	493	502	345
55°	347	358	392	425	439	309
65°	229	251	304	346	364	225
75°	104	146	208	207	200	113
85°	23	35	36	33	34	27
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	667.0	667.0	667.0	667.0	667.0
2.5°	670.3	667.0	668.1	667.0	664.8
5°	668.1	664.8	665.9	664.8	663.7
7.5°	665.9	662.7	663.7	662.7	662.7
10°	661.6	658.3	660.5	659.4	658.3
12.5°	655.0	652.8	655.0	653.9	653.9
15°	646.3	645.2	648.5	648.5	648.5
17.5°	637.6	636.5	640.9	640.9	640.9
20°	626.7	625.6	632.1	632.1	632.1
22.5°	613.6	612.5	621.2	621.2	621.2
25°	599.4	599.4	608.2	610.3	610.3
27.5°	585.3	585.3	595.1	598.3	598.3
30°	570.0	570.0	579.8	584.2	586.4
32.5°	551.5	553.7	564.6	570.0	572.2
35°	533.0	536.2	547.1	554.8	559.1
37.5°	513.3	516.6	529.7	538.4	543.9
40°	492.6	497.0	511.2	522.1	528.6
42.5°	469.7	476.3	492.6	506.8	515.5
45°	447.9	455.6	473.0	492.6	502.4
47.5°	424.0	432.7	452.3	477.4	487.2
50°	398.9	407.6	431.6	459.9	470.8
52.5°	373.8	383.6	412.0	442.5	455.6
55°	346.6	357.5	392.4	425.1	439.2
57.5°	318.2	331.3	370.6	405.4	420.7
60°	288.8	305.2	348.8	385.8	402.2
62.5°	258.3	277.9	327.0	366.2	383.6
65°	228.9	250.7	304.1	345.5	364.0
67.5°	197.3	224.5	281.2	325.9	343.3
70°	165.7	197.3	257.2	303.0	320.4
72.5°	134.1	172.2	233.2	274.7	274.7
75°	103.5	146.0	208.2	207.1	200.5
77.5°	78.5	122.1	171.1	146.0	147.1
80°	56.7	98.1	107.9	107.9	109.0
82.5°	38.1	75.2	69.8	68.7	70.8
85°	22.9	34.9	36.0	32.7	33.8
87.5°	10.9	12.0	9.8	6.5	6.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)