

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: P263203

Luminaire Tested: **24CZ-LD5-35SE-SQP-UNV-L93050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263203
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-LD5-35SE-SQP-UNV-L93050-W2A1-U-3500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SQP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2001.5 lumens
Efficiency: N/A
Efficacy: 75.4 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

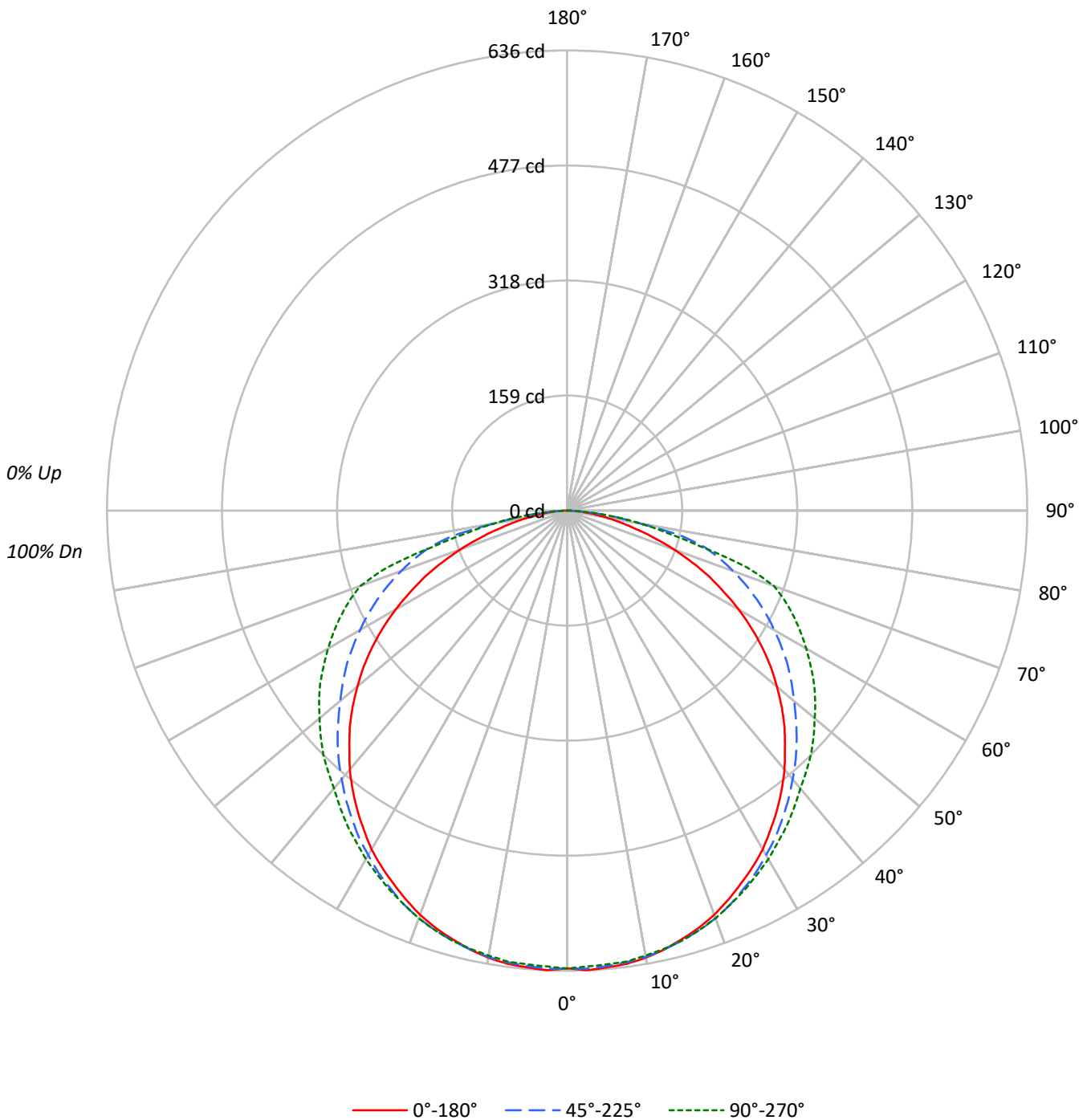
Input Watts (W): 26.53476
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	851	851	851
5°	856	853	850
10°	857	856	853
15°	854	857	857
20°	851	859	859
25°	844	856	860
30°	840	855	864
35°	830	852	871
40°	821	852	881
45°	809	854	907
50°	792	857	935
55°	771	873	977
60°	737	890	1027
65°	691	918	1099
70°	618	960	1196
75°	510	1027	989
80°	417	793	801
85°	335	526	494



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.1	3.0
10°-20°	173.4	8.7
20°-30°	265.0	13.2
30°-40°	324.1	16.2
40°-50°	346.8	17.3
50°-60°	332.1	16.6
60°-70°	280.9	14.0
70°-80°	178.1	8.9
80°-90°	41.0	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°	498.5	24.9
0°-40°	822.6	41.1
0°-60°	1501.5	75.0
0°-90°	2001.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2001.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	633	633	633	633	633	
5°	634	631	632	631	630	60
15°	613	612	615	615	615	173
25°	569	569	577	579	579	262
35°	506	509	519	526	530	316
45°	425	432	449	467	477	327
55°	329	339	372	403	417	293
65°	217	238	288	328	345	214
75°	98	138	198	196	190	107
85°	22	33	34	31	32	26
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	632.7	632.7	632.7	632.7	632.7
2.5°	635.8	632.7	633.8	632.7	630.7
5°	633.8	630.7	631.7	630.7	629.6
7.5°	631.7	628.6	629.6	628.6	628.6
10°	627.5	624.4	626.5	625.5	624.4
12.5°	621.3	619.3	621.3	620.3	620.3
15°	613.1	612.0	615.1	615.1	615.1
17.5°	604.8	603.8	607.9	607.9	607.9
20°	594.5	593.4	599.6	599.6	599.6
22.5°	582.1	581.0	589.3	589.3	589.3
25°	568.6	568.6	576.9	579.0	579.0
27.5°	555.2	555.2	564.5	567.6	567.6
30°	540.7	540.7	550.0	554.1	556.2
32.5°	523.1	525.2	535.5	540.7	542.8
35°	505.6	508.7	519.0	526.2	530.4
37.5°	486.9	490.0	502.5	510.7	515.9
40°	467.3	471.4	484.9	495.2	501.4
42.5°	445.6	451.8	467.3	480.7	489.0
45°	424.9	432.2	448.7	467.3	476.6
47.5°	402.2	410.4	429.0	452.8	462.1
50°	378.4	386.7	409.4	436.3	446.6
52.5°	354.6	363.9	390.8	419.7	432.2
55°	328.8	339.1	372.2	403.2	416.6
57.5°	301.9	314.3	351.5	384.6	399.1
60°	274.0	289.5	330.8	366.0	381.5
62.5°	245.0	263.6	310.2	347.4	363.9
65°	217.1	237.8	288.4	327.7	345.3
67.5°	187.1	213.0	266.7	309.1	325.7
70°	157.1	187.1	244.0	287.4	304.0
72.5°	127.2	163.3	221.2	260.5	260.5
75°	98.2	138.5	197.5	196.4	190.2
77.5°	74.4	115.8	162.3	138.5	139.6
80°	53.8	93.0	102.4	102.4	103.4
82.5°	36.2	71.3	66.2	65.1	67.2
85°	21.7	33.1	34.1	31.0	32.0
87.5°	10.3	11.4	9.3	6.2	6.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)