

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: P263128

Luminaire Tested: **24CZ-LD5-35SE-SQP-UNV-L83050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263128
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-L83050-W2A1-U-3500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SQP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2355.0 lumens
Efficiency: N/A
Efficacy: 90.4 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

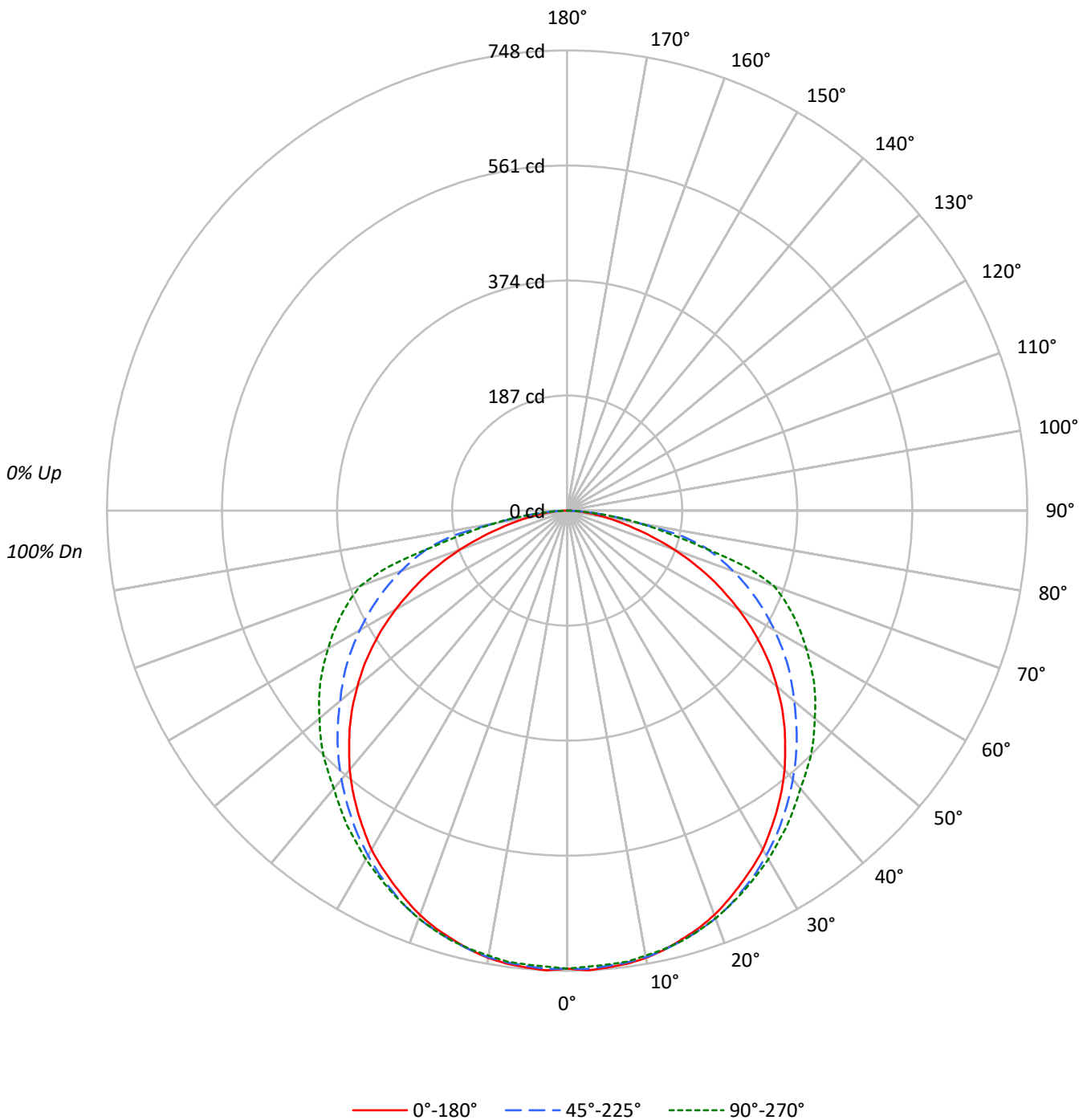
Input Watts (W): 26.04
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1002	1002	1002
5°	1007	1004	1001
10°	1009	1007	1004
15°	1005	1008	1008
20°	1002	1010	1010
25°	993	1008	1011
30°	988	1005	1017
35°	977	1003	1025
40°	966	1002	1036
45°	951	1004	1067
50°	932	1008	1100
55°	907	1027	1150
60°	868	1048	1208
65°	813	1081	1294
70°	727	1129	1407
75°	601	1208	1163
80°	490	933	942
85°	394	619	582



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.7	3.0
10°-20°	204.0	8.7
20°-30°	311.8	13.2
30°-40°	381.4	16.2
40°-50°	408.1	17.3
50°-60°	390.7	16.6
60°-70°	330.5	14.0
70°-80°	209.5	8.9
80°-90°	48.2	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°	586.5	24.9
0°-40°	967.9	41.1
0°-60°	1766.7	75.0
0°-90°	2355.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2355.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	744	744	744	744	744	
5°	746	742	743	742	741	71
15°	721	720	724	724	724	204
25°	669	669	679	681	681	309
35°	595	598	611	619	624	372
45°	500	508	528	550	561	385
55°	387	399	438	474	490	345
65°	256	280	339	386	406	252
75°	116	163	232	231	224	126
85°	26	39	40	36	38	30
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	744.5	744.5	744.5	744.5	744.5
2.5°	748.1	744.5	745.7	744.5	742.0
5°	745.7	742.0	743.2	742.0	740.8
7.5°	743.2	739.6	740.8	739.6	739.6
10°	738.4	734.7	737.2	735.9	734.7
12.5°	731.1	728.6	731.1	729.9	729.9
15°	721.3	720.1	723.8	723.8	723.8
17.5°	711.6	710.4	715.3	715.3	715.3
20°	699.5	698.2	705.5	705.5	705.5
22.5°	684.9	683.6	693.4	693.4	693.4
25°	669.0	669.0	678.8	681.2	681.2
27.5°	653.2	653.2	664.2	667.8	667.8
30°	636.2	636.2	647.1	652.0	654.4
32.5°	615.5	618.0	630.1	636.2	638.6
35°	594.8	598.5	610.7	619.2	624.0
37.5°	572.9	576.6	591.2	600.9	607.0
40°	549.8	554.7	570.5	582.7	590.0
42.5°	524.3	531.6	549.8	565.6	575.4
45°	500.0	508.5	527.9	549.8	560.8
47.5°	473.2	482.9	504.8	532.8	543.7
50°	445.2	454.9	481.7	513.3	525.5
52.5°	417.2	428.2	459.8	493.9	508.5
55°	386.8	399.0	437.9	474.4	490.2
57.5°	355.2	369.8	413.6	452.5	469.5
60°	322.4	340.6	389.3	430.6	448.9
62.5°	288.3	310.2	364.9	408.7	428.2
65°	255.5	279.8	339.4	385.6	406.3
67.5°	220.2	250.6	313.8	363.7	383.2
70°	184.9	220.2	287.1	338.2	357.6
72.5°	149.6	192.2	260.3	306.5	306.5
75°	115.6	163.0	232.3	231.1	223.8
77.5°	87.6	136.2	191.0	163.0	164.2
80°	63.3	109.5	120.4	120.4	121.6
82.5°	42.6	83.9	77.9	76.6	79.1
85°	25.5	38.9	40.1	36.5	37.7
87.5°	12.2	13.4	10.9	7.3	7.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)