

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: P263078

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263078
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-L83050-W2A1-U-3500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SQP LENS
Light Source: (336) 80 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2330.0 lumens
Efficiency: N/A
Efficacy: 96.4 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

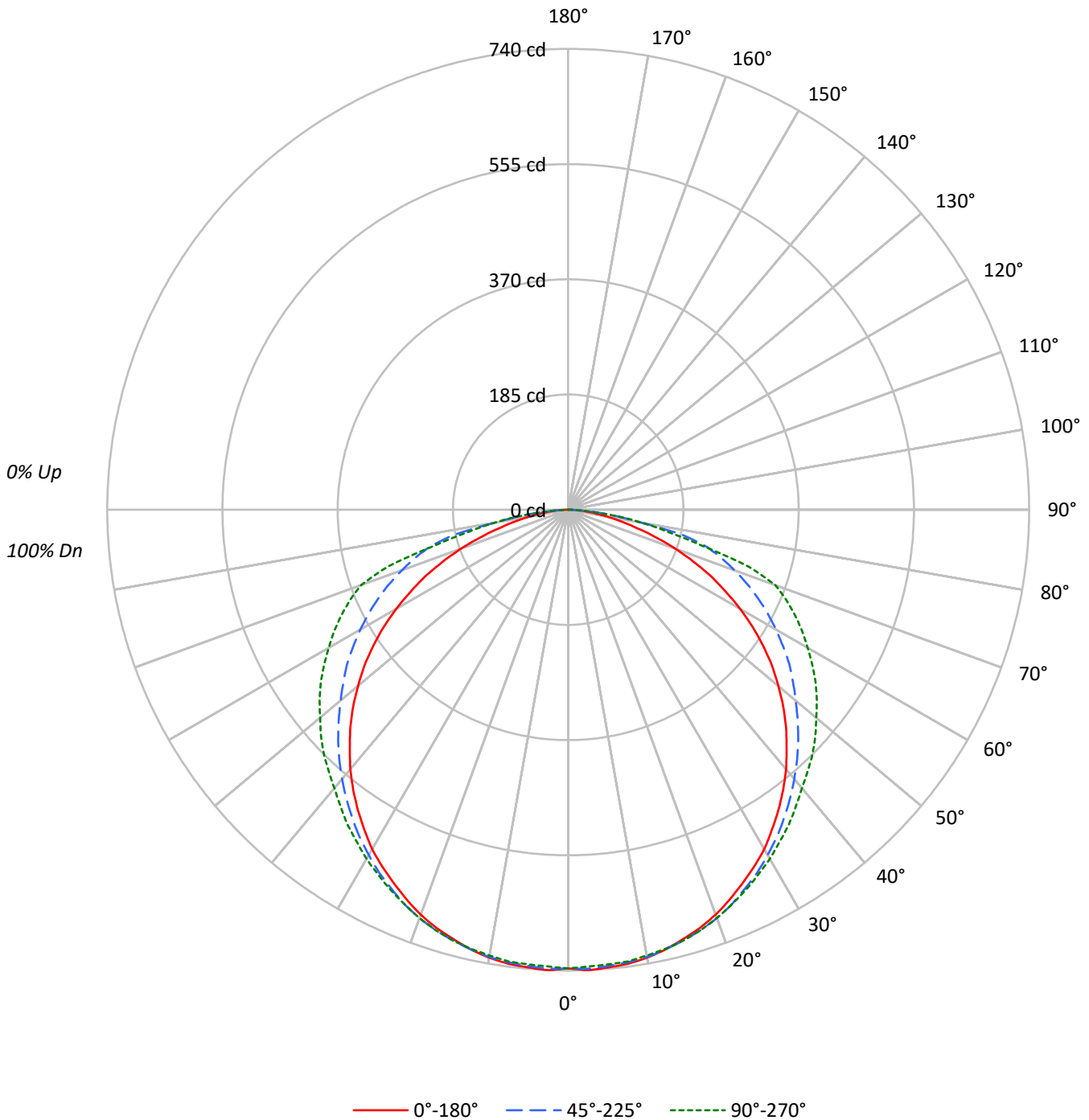
Input Watts (W): 24.18
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	991	991	991
5°	996	993	990
10°	998	996	993
15°	994	997	997
20°	991	999	999
25°	983	997	1001
30°	978	995	1006
35°	967	992	1014
40°	955	991	1025
45°	941	994	1056
50°	922	998	1088
55°	898	1016	1138
60°	858	1036	1195
65°	805	1069	1280
70°	720	1117	1392
75°	594	1195	1151
80°	485	923	933
85°	391	613	576



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.0	3.0
10°-20°	201.9	8.7
20°-30°	308.5	13.2
30°-40°	377.3	16.2
40°-50°	403.7	17.3
50°-60°	386.6	16.6
60°-70°	327.0	14.0
70°-80°	207.3	8.9
80°-90°	47.7	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°	580.3	24.9
0°-40°	957.6	41.1
0°-60°	1748.0	75.0
0°-90°	2330.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2330.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	737	737	737	737	737	
5°	738	734	735	734	733	70
15°	714	712	716	716	716	202
25°	662	662	672	674	674	305
35°	588	592	604	613	617	368
45°	495	503	522	544	555	381
55°	383	395	433	469	485	341
65°	253	277	336	382	402	249
75°	114	161	230	229	221	124
85°	25	38	40	36	37	30
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	736.6	736.6	736.6	736.6	736.6
2.5°	740.2	736.6	737.8	736.6	734.1
5°	737.8	734.1	735.4	734.1	732.9
7.5°	735.4	731.7	732.9	731.7	731.7
10°	730.5	726.9	729.3	728.1	726.9
12.5°	723.3	720.9	723.3	722.1	722.1
15°	713.7	712.5	716.1	716.1	716.1
17.5°	704.1	702.9	707.7	707.7	707.7
20°	692.0	690.8	698.0	698.0	698.0
22.5°	677.6	676.4	686.0	686.0	686.0
25°	661.9	661.9	671.6	674.0	674.0
27.5°	646.3	646.3	657.1	660.7	660.7
30°	629.4	629.4	640.3	645.1	647.5
32.5°	609.0	611.4	623.4	629.4	631.9
35°	588.5	592.1	604.2	612.6	617.4
37.5°	566.9	570.5	584.9	594.5	600.6
40°	544.0	548.8	564.5	576.5	583.7
42.5°	518.7	525.9	544.0	559.6	569.3
45°	494.6	503.1	522.3	544.0	554.8
47.5°	468.2	477.8	499.5	527.1	538.0
50°	440.5	450.1	476.6	507.9	519.9
52.5°	412.8	423.6	454.9	488.6	503.1
55°	382.7	394.8	433.3	469.4	485.0
57.5°	351.4	365.9	409.2	447.7	464.6
60°	318.9	337.0	385.1	426.0	444.1
62.5°	285.2	306.9	361.1	404.4	423.6
65°	252.7	276.8	335.8	381.5	402.0
67.5°	217.8	247.9	310.5	359.9	379.1
70°	182.9	217.8	284.0	334.6	353.8
72.5°	148.0	190.2	257.6	303.3	303.3
75°	114.3	161.3	229.9	228.7	221.4
77.5°	86.7	134.8	189.0	161.3	162.5
80°	62.6	108.3	119.1	119.1	120.4
82.5°	42.1	83.0	77.0	75.8	78.2
85°	25.3	38.5	39.7	36.1	37.3
87.5°	12.0	13.2	10.8	7.2	7.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)