

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: P263742

Luminaire Tested: **24CZ-LD5-35SE-RDP-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263742
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25696)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ-LD5-35SE-RDP-UNV-L82765-W2A1-U-3000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2334.0 lumens
Efficiency: N/A
Efficacy: 90.3 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.3 / 1.41
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

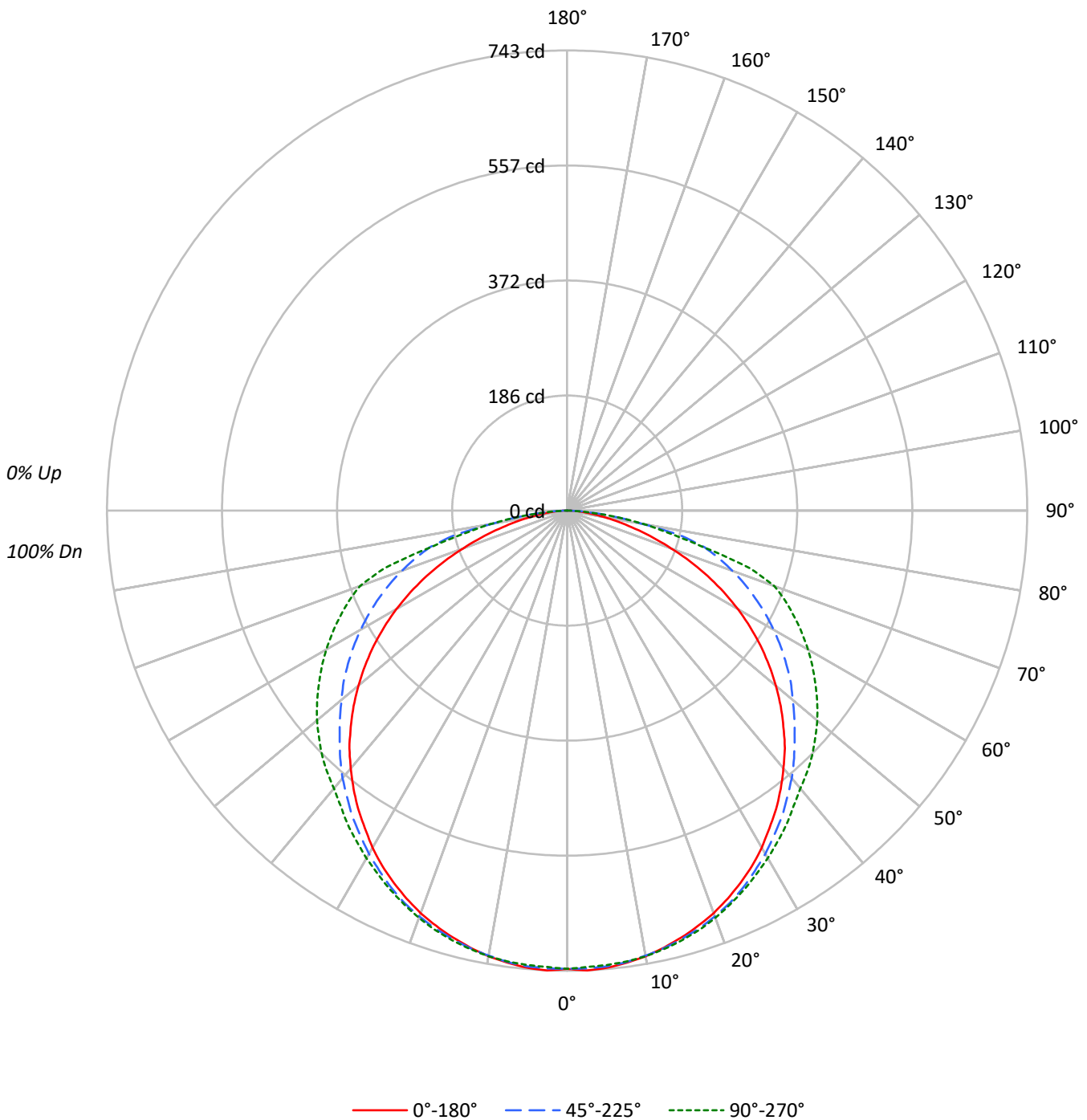
Input Watts (W): 25.854
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	62	58	56
4	81	68	59	52	78	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	61	48	40	34	47	39	34		45	38	33		44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30		42	35	30		40	34	29	27
9	55	41	33	27	53	41	32	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°	996	996	996
5°	1001	998	995
10°	998	997	998
15°	994	997	1000
20°	990	999	1002
25°	984	998	1003
30°	976	994	1007
35°	966	993	1015
40°	954	991	1029
45°	940	988	1065
50°	921	996	1104
55°	895	1013	1148
60°	856	1036	1209
65°	798	1068	1287
70°	705	1116	1401
75°	591	1195	1176
80°	472	944	979
85°	372	639	585



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.2	3.0
10°-20°	202.0	8.7
20°-30°	308.5	13.2
30°-40°	377.1	16.2
40°-50°	403.7	17.3
50°-60°	387.2	16.6
60°-70°	326.9	14.0
70°-80°	209.0	9.0
80°-90°	49.4	2.1
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°	580.6	24.9
0°-40°	957.8	41.0
0°-60°	1748.7	74.9
0°-90°	2334.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2334.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	740	740	740	740	740	
5°	741	736	739	738	736	70
15°	714	711	716	718	718	201
25°	663	662	672	674	676	306
35°	588	593	604	612	618	368
45°	494	502	519	543	560	381
55°	381	394	432	471	489	340
65°	250	275	336	383	404	247
75°	114	162	230	234	226	122
85°	24	40	41	40	38	29
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	739.9	739.9	739.9	739.9	739.9
2.5°	743.3	738.7	739.9	739.9	737.6
5°	741.0	736.5	738.7	737.6	736.5
7.5°	736.5	733.0	735.3	735.3	734.2
10°	730.7	727.3	729.6	730.7	730.7
12.5°	722.7	720.4	723.8	723.8	725.0
15°	713.5	711.2	715.8	718.1	718.1
17.5°	703.1	702.0	707.7	708.9	710.0
20°	691.6	690.5	697.4	697.4	699.7
22.5°	677.9	676.7	685.9	685.9	688.2
25°	662.9	661.8	672.1	674.4	675.6
27.5°	646.8	645.7	656.0	659.5	661.8
30°	628.5	628.5	639.9	644.5	648.0
32.5°	607.8	611.2	621.6	628.5	633.0
35°	588.2	592.8	604.3	612.4	618.1
37.5°	566.4	571.0	583.6	594.0	600.9
40°	543.4	549.2	564.1	575.6	585.9
42.5°	520.5	526.2	542.3	559.5	573.3
45°	494.0	502.1	519.3	543.4	559.5
47.5°	467.6	475.6	497.5	527.3	543.4
50°	440.0	449.2	475.6	510.1	527.3
52.5°	411.3	421.6	455.0	491.7	509.0
55°	381.4	394.1	432.0	471.1	489.4
57.5°	350.4	364.2	409.0	450.4	469.9
60°	318.2	335.5	384.9	428.5	449.2
62.5°	284.9	305.6	360.8	405.6	427.4
65°	250.5	274.6	335.5	382.6	404.4
67.5°	214.8	247.0	310.2	359.6	381.4
70°	179.2	217.1	283.8	334.3	356.2
72.5°	145.9	189.6	257.4	304.5	309.1
75°	113.7	162.0	229.8	234.4	226.3
77.5°	85.0	134.4	189.6	168.9	167.7
80°	60.9	108.0	121.8	125.2	126.4
82.5°	40.2	81.6	79.3	81.6	80.4
85°	24.1	40.2	41.4	40.2	37.9
87.5°	11.5	14.9	11.5	10.3	9.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)