

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: P263366

Luminaire Tested: **24CZ-LD5-35-SQP-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263366
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-2700K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH SQP LENS
Light Source: (336) 90 CRI LEDS TUNED AT 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1826.0 lumens
Efficiency: N/A
Efficacy: 75.8 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

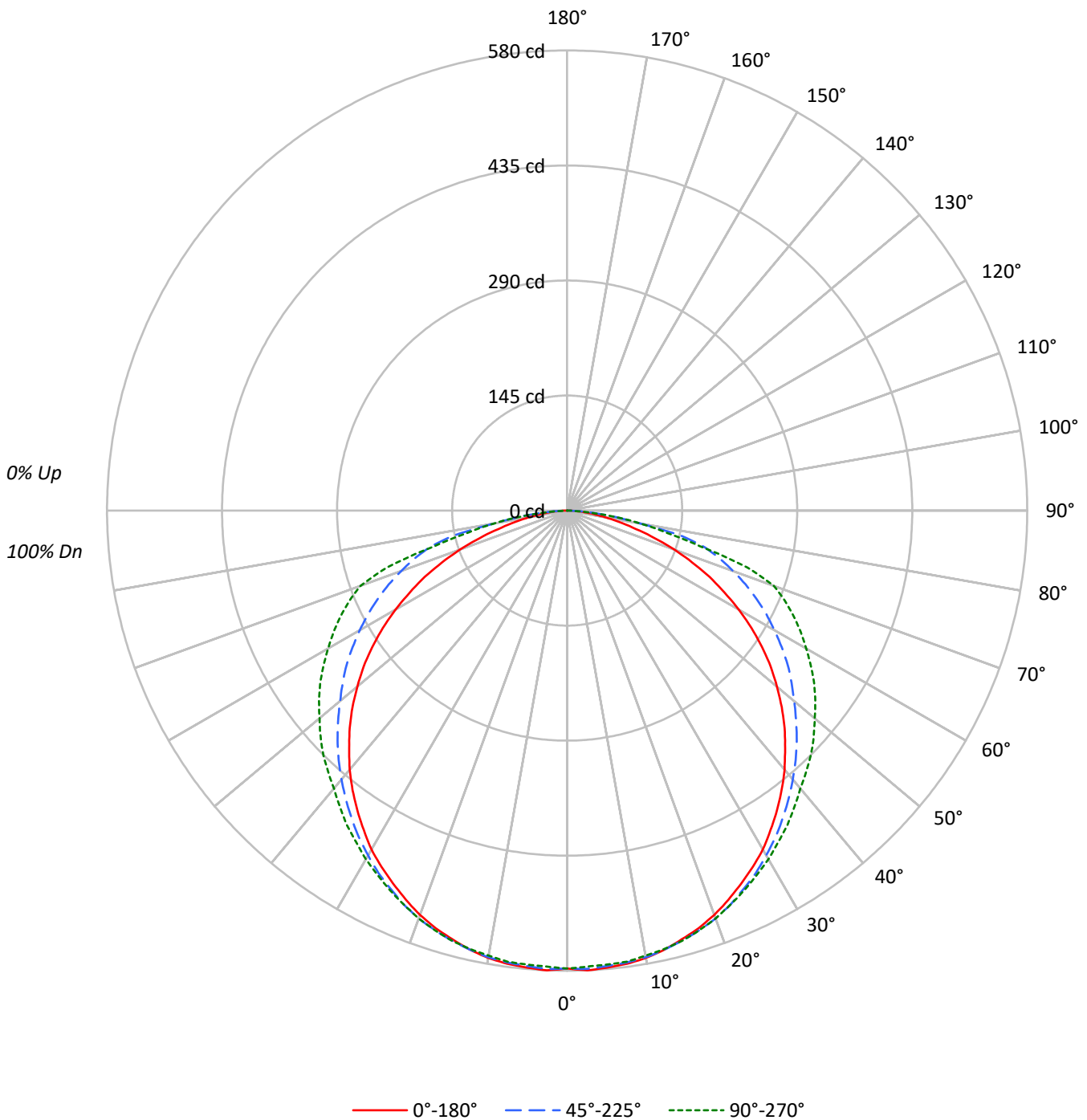
Input Watts (W): 24.087
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	777	777	777
5°	781	778	776
10°	782	781	778
15°	779	782	782
20°	776	783	783
25°	770	781	784
30°	766	780	788
35°	758	778	795
40°	749	777	803
45°	738	779	827
50°	723	782	853
55°	704	796	892
60°	672	812	936
65°	631	838	1003
70°	564	876	1091
75°	466	936	902
80°	380	724	731
85°	306	480	451



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.8	3.0
10°-20°	158.2	8.7
20°-30°	241.8	13.2
30°-40°	295.7	16.2
40°-50°	316.4	17.3
50°-60°	303.0	16.6
60°-70°	256.3	14.0
70°-80°	162.5	8.9
80°-90°	37.4	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°	454.8	24.9
0°-40°	750.5	41.1
0°-60°	1369.9	75.0
0°-90°	1826.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1826.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	577	577	577	577	577	
5°	578	575	576	575	574	55
15°	559	558	561	561	561	158
25°	519	519	526	528	528	239
35°	461	464	474	480	484	289
45°	388	394	409	426	435	299
55°	300	309	340	368	380	268
65°	198	217	263	299	315	195
75°	90	126	180	179	174	97
85°	20	30	31	28	29	24
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	577.2	577.2	577.2	577.2	577.2
2.5°	580.1	577.2	578.2	577.2	575.3
5°	578.2	575.3	576.3	575.3	574.4
7.5°	576.3	573.5	574.4	573.5	573.5
10°	572.5	569.7	571.6	570.6	569.7
12.5°	566.9	565.0	566.9	565.9	565.9
15°	559.3	558.4	561.2	561.2	561.2
17.5°	551.8	550.8	554.6	554.6	554.6
20°	542.3	541.4	547.1	547.1	547.1
22.5°	531.0	530.1	537.6	537.6	537.6
25°	518.8	518.8	526.3	528.2	528.2
27.5°	506.5	506.5	515.0	517.8	517.8
30°	493.3	493.3	501.8	505.6	507.4
32.5°	477.3	479.1	488.6	493.3	495.2
35°	461.2	464.0	473.5	480.1	483.9
37.5°	444.2	447.1	458.4	465.9	470.7
40°	426.3	430.1	442.4	451.8	457.4
42.5°	406.5	412.2	426.3	438.6	446.1
45°	387.7	394.3	409.3	426.3	434.8
47.5°	366.9	374.4	391.4	413.1	421.6
50°	345.2	352.8	373.5	398.0	407.5
52.5°	323.5	332.0	356.5	382.9	394.3
55°	299.9	309.4	339.5	367.8	380.1
57.5°	275.4	286.7	320.7	350.9	364.1
60°	249.9	264.1	301.8	333.9	348.0
62.5°	223.5	240.5	283.0	316.9	332.0
65°	198.1	216.9	263.2	299.0	315.0
67.5°	170.7	194.3	243.3	282.0	297.1
70°	143.4	170.7	222.6	262.2	277.3
72.5°	116.0	149.0	201.8	237.7	237.7
75°	89.6	126.4	180.1	179.2	173.5
77.5°	67.9	105.6	148.1	126.4	127.3
80°	49.0	84.9	93.4	93.4	94.3
82.5°	33.0	65.1	60.4	59.4	61.3
85°	19.8	30.2	31.1	28.3	29.2
87.5°	9.4	10.4	8.5	5.7	5.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)