

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: P263573

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P263573  
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-LD5-35-RDP-UNV-L93050-W2A1-U-3500K  
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER  
WITH RDP LENS  
Light Source: (336) 90 CRI LEDS TUNED AT 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2078.9 lumens  
Efficiency: N/A  
Efficacy: 84.4 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

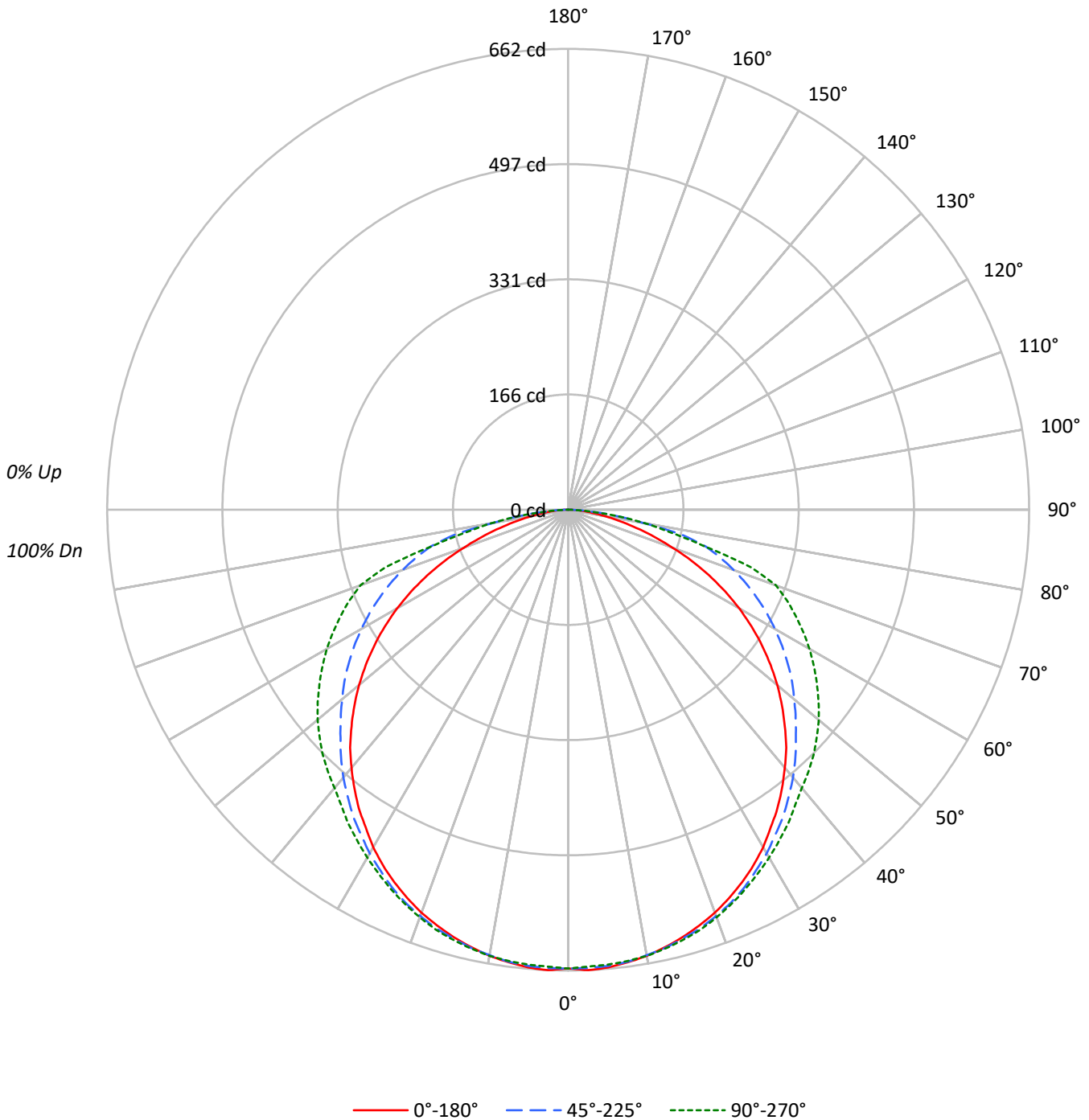
Input Watts (W): 24.63942  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	887	887	887
5°	891	889	886
10°	889	888	889
15°	885	888	891
20°	882	889	892
25°	877	889	893
30°	870	886	897
35°	861	884	904
40°	850	882	917
45°	837	880	948
50°	820	887	983
55°	797	903	1023
60°	763	922	1077
65°	710	951	1147
70°	628	995	1248
75°	527	1064	1048
80°	420	841	872
85°	332	568	522



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	62.5	3.0
10°-20°	179.9	8.7
20°-30°	274.8	13.2
30°-40°	335.9	16.2
40°-50°	359.6	17.3
50°-60°	344.9	16.6
60°-70°	291.2	14.0
70°-80°	186.1	9.0
80°-90°	44.0	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°	517.2	24.9
0°-40°	853.1	41.0
0°-60°	1557.5	74.9
0°-90°	2078.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2078.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	659	659	659	659	659	
5°	660	656	658	657	656	63
15°	636	633	638	640	640	179
25°	590	589	599	601	602	272
35°	524	528	538	545	550	328
45°	440	447	462	484	498	339
55°	340	351	385	420	436	303
65°	223	245	299	341	360	220
75°	101	144	205	209	202	109
85°	22	36	37	36	34	26
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	659.0	659.0	659.0	659.0	659.0
2.5°	662.1	658.0	659.0	659.0	657.0
5°	660.0	655.9	658.0	657.0	655.9
7.5°	655.9	652.9	654.9	654.9	653.9
10°	650.8	647.8	649.8	650.8	650.8
12.5°	643.7	641.6	644.7	644.7	645.7
15°	635.5	633.4	637.5	639.6	639.6
17.5°	626.3	625.2	630.4	631.4	632.4
20°	616.0	615.0	621.2	621.2	623.2
22.5°	603.8	602.7	610.9	610.9	613.0
25°	590.5	589.4	598.6	600.7	601.7
27.5°	576.1	575.1	584.3	587.4	589.4
30°	559.8	559.8	570.0	574.1	577.1
32.5°	541.3	544.4	553.6	559.8	563.8
35°	523.9	528.0	538.3	545.4	550.5
37.5°	504.5	508.6	519.8	529.1	535.2
40°	484.0	489.1	502.4	512.7	521.9
42.5°	463.6	468.7	483.0	498.4	510.6
45°	440.0	447.2	462.5	484.0	498.4
47.5°	416.5	423.7	443.1	469.7	484.0
50°	391.9	400.1	423.7	454.4	469.7
52.5°	366.3	375.6	405.2	438.0	453.3
55°	339.7	351.0	384.8	419.6	435.9
57.5°	312.1	324.4	364.3	401.1	418.5
60°	283.5	298.8	342.8	381.7	400.1
62.5°	253.8	272.2	321.3	361.2	380.7
65°	223.1	244.6	298.8	340.8	360.2
67.5°	191.4	220.0	276.3	320.3	339.7
70°	159.6	193.4	252.8	297.8	317.2
72.5°	130.0	168.8	229.2	271.2	275.3
75°	101.3	144.3	204.7	208.8	201.6
77.5°	75.7	119.7	168.8	150.4	149.4
80°	54.2	96.2	108.5	111.5	112.6
82.5°	35.8	72.7	70.6	72.7	71.6
85°	21.5	35.8	36.8	35.8	33.8
87.5°	10.2	13.3	10.2	9.2	8.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)