

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: P263547

Luminaire Tested: **24CZ-LD5-35SE-RDP-UNV-L83050-W2A1-U-3000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P263547  
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-L83050-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: 2336.0 lumens  
Efficiency: N/A  
Efficacy: 89.9 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

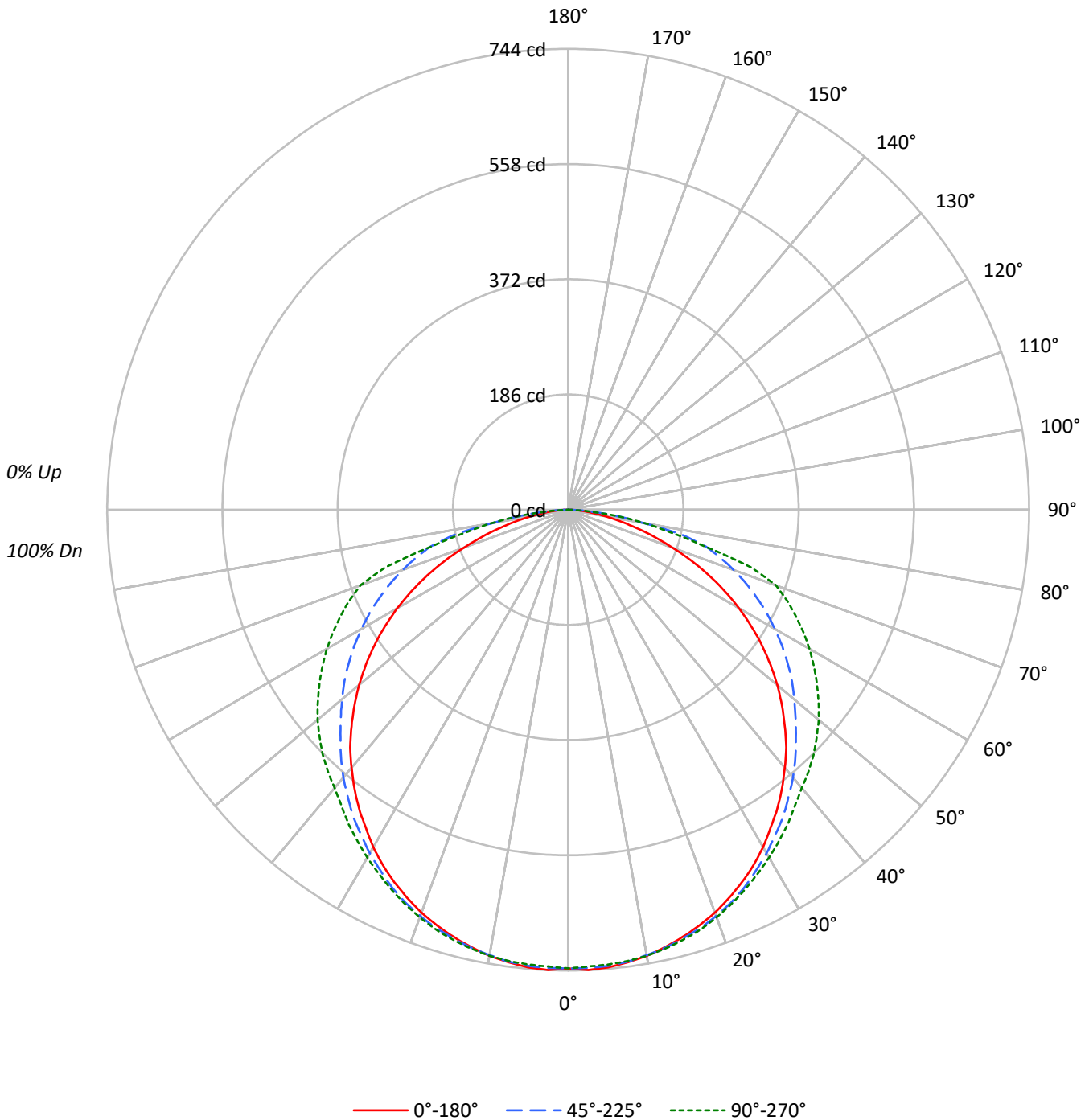
Input Watts (W): 25.98792  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1002	999	996
10°	999	998	999
15°	995	998	1001
20°	991	999	1003
25°	985	999	1004
30°	977	995	1008
35°	967	993	1016
40°	955	992	1030
45°	941	989	1066
50°	922	997	1105
55°	896	1014	1149
60°	857	1037	1210
65°	798	1069	1289
70°	706	1117	1402
75°	592	1196	1177
80°	472	945	980
85°	372	639	585



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	70.2	3.0
10°-20°	202.1	8.7
20°-30°	308.8	13.2
30°-40°	377.5	16.2
40°-50°	404.0	17.3
50°-60°	387.6	16.6
60°-70°	327.2	14.0
70°-80°	209.1	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°	581.1	24.9
0°-40°	958.6	41.0
0°-60°	1750.2	74.9
0°-90°	2336.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2336.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	740	740	740	740	740	
5°	742	737	739	738	737	70
15°	714	712	716	719	719	202
25°	664	662	673	675	676	306
35°	589	593	605	613	619	368
45°	494	502	520	544	560	381
55°	382	394	432	472	490	341
65°	251	275	336	383	405	247
75°	114	162	230	235	226	123
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°	740.5	740.5	740.5	740.5	740.5
2.5°	744.0	739.4	740.5	740.5	738.2
5°	741.7	737.1	739.4	738.2	737.1
7.5°	737.1	733.6	735.9	735.9	734.8
10°	731.3	727.9	730.2	731.3	731.3
12.5°	723.3	721.0	724.4	724.4	725.6
15°	714.1	711.8	716.4	718.7	718.7
17.5°	703.7	702.6	708.3	709.5	710.6
20°	692.2	691.1	698.0	698.0	700.3
22.5°	678.4	677.3	686.5	686.5	688.8
25°	663.5	662.3	672.7	675.0	676.1
27.5°	647.4	646.2	656.6	660.0	662.3
30°	629.0	629.0	640.5	645.1	648.5
32.5°	608.3	611.7	622.1	629.0	633.6
35°	588.7	593.3	604.8	612.9	618.6
37.5°	566.9	571.5	584.1	594.5	601.4
40°	543.9	549.6	564.6	576.1	586.4
42.5°	520.9	526.7	542.7	560.0	573.8
45°	494.5	502.5	519.8	543.9	560.0
47.5°	468.0	476.1	497.9	527.8	543.9
50°	440.4	449.6	476.1	510.6	527.8
52.5°	411.7	422.0	455.4	492.2	509.4
55°	381.8	394.4	432.4	471.5	489.9
57.5°	350.7	364.5	409.4	450.8	470.3
60°	318.5	335.8	385.2	428.9	449.6
62.5°	285.2	305.9	361.1	405.9	427.8
65°	250.7	274.8	335.8	382.9	404.8
67.5°	215.0	247.2	310.5	359.9	381.8
70°	179.4	217.3	284.0	334.6	356.5
72.5°	146.0	189.7	257.6	304.7	309.3
75°	113.8	162.1	230.0	234.6	226.5
77.5°	85.1	134.5	189.7	169.0	167.9
80°	60.9	108.1	121.9	125.3	126.5
82.5°	40.2	81.6	79.3	81.6	80.5
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)