

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: P263544

Luminaire Tested: **24CZ-LD5-30SE-RDP-UNV-L83050-W2A1-U-4000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P263544  
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-LD5-30SE-RDP-UNV-L83050-W2A1-U-4000K  
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER  
WITH RDP LENS  
Light Source: (168) 80 CRI LEDS TUNED AT 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2213.0 lumens  
Efficiency: N/A  
Efficacy: 99.4 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

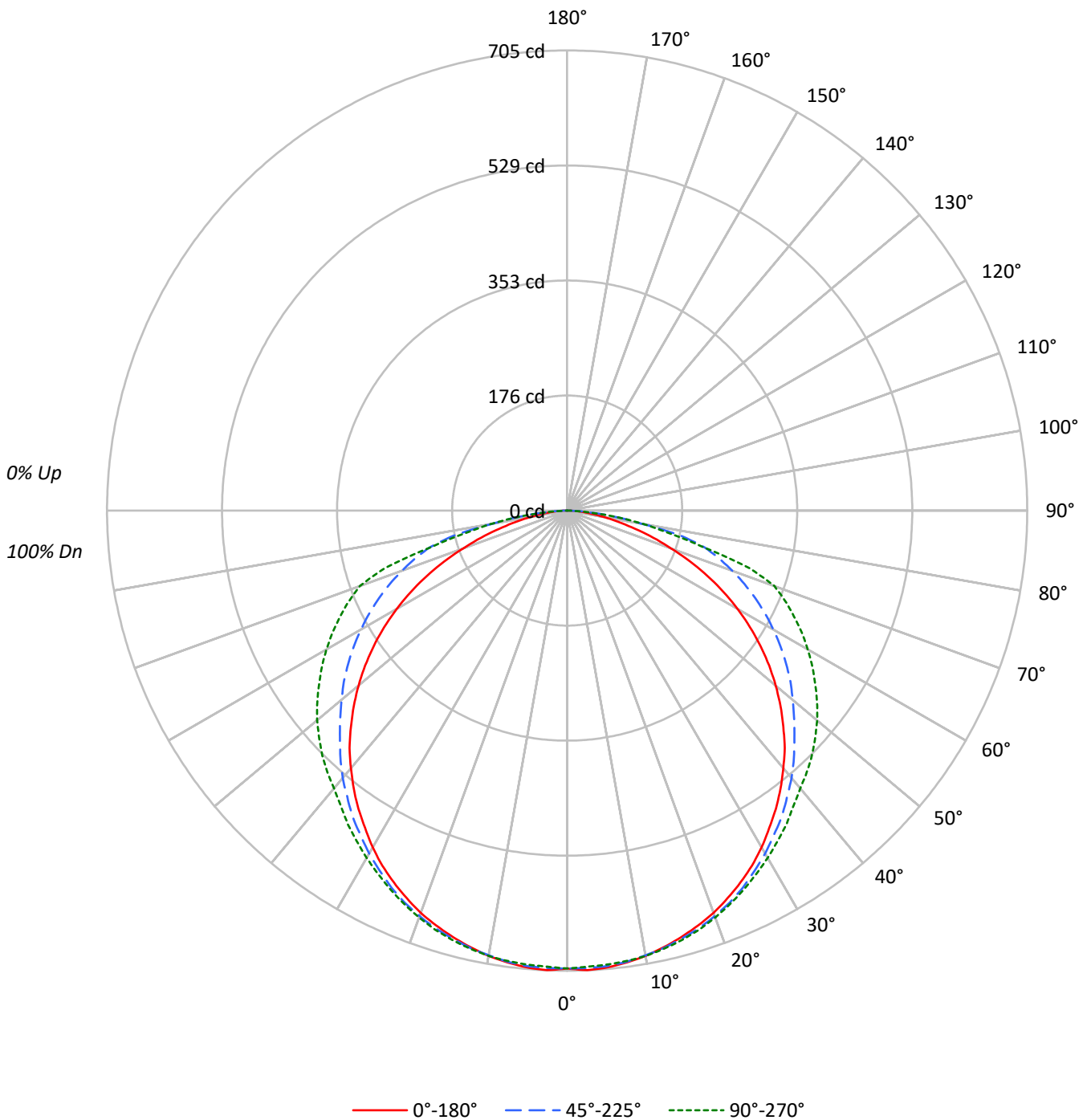
Input Watts (W): 22.262526  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	944	944	944
5°	949	946	943
10°	947	945	947
15°	942	945	948
20°	939	947	950
25°	933	946	951
30°	926	943	955
35°	916	941	963
40°	905	940	976
45°	891	937	1009
50°	873	944	1047
55°	848	961	1089
60°	812	982	1146
65°	756	1013	1221
70°	668	1059	1328
75°	560	1133	1116
80°	447	895	928
85°	354	605	554



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	66.5	3.0
10°-20°	191.5	8.7
20°-30°	292.5	13.2
30°-40°	357.6	16.2
40°-50°	382.8	17.3
50°-60°	367.1	16.6
60°-70°	310.0	14.0
70°-80°	198.1	9.0
80°-90°	46.8	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°	550.5	24.9
0°-40°	908.1	41.0
0°-60°	1658.0	74.9
0°-90°	2213.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2213.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	702	702	702	702	702	
5°	703	698	700	699	698	67
15°	676	674	679	681	681	191
25°	629	628	637	639	640	290
35°	558	562	573	581	586	349
45°	468	476	492	515	530	361
55°	362	374	410	447	464	323
65°	238	260	318	363	384	234
75°	108	154	218	222	215	116
85°	23	38	39	38	36	27
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	701.5	701.5	701.5	701.5	701.5
2.5°	704.8	700.5	701.5	701.5	699.4
5°	702.6	698.3	700.5	699.4	698.3
7.5°	698.3	695.0	697.2	697.2	696.1
10°	692.8	689.6	691.7	692.8	692.8
12.5°	685.2	683.0	686.3	686.3	687.4
15°	676.5	674.3	678.7	680.8	680.8
17.5°	666.7	665.6	671.0	672.1	673.2
20°	655.8	654.7	661.2	661.2	663.4
22.5°	642.7	641.6	650.3	650.3	652.5
25°	628.6	627.5	637.3	639.4	640.5
27.5°	613.3	612.2	622.0	625.3	627.5
30°	595.9	595.9	606.8	611.1	614.4
32.5°	576.3	579.5	589.3	595.9	600.2
35°	557.7	562.1	573.0	580.6	586.1
37.5°	537.0	541.4	553.4	563.2	569.7
40°	515.3	520.7	534.9	545.8	555.6
42.5°	493.5	498.9	514.2	530.5	543.6
45°	468.4	476.0	492.4	515.3	530.5
47.5°	443.4	451.0	471.7	500.0	515.3
50°	417.2	425.9	451.0	483.7	500.0
52.5°	390.0	399.8	431.4	466.2	482.6
55°	361.7	373.6	409.6	446.6	464.1
57.5°	332.3	345.3	387.8	427.0	445.5
60°	301.7	318.1	364.9	406.3	425.9
62.5°	270.2	289.8	342.1	384.5	405.2
65°	237.5	260.4	318.1	362.8	383.5
67.5°	203.7	234.2	294.1	341.0	361.7
70°	169.9	205.9	269.1	317.0	337.7
72.5°	138.3	179.7	244.0	288.7	293.0
75°	107.8	153.6	217.9	222.2	214.6
77.5°	80.6	127.5	179.7	160.1	159.0
80°	57.7	102.4	115.5	118.7	119.8
82.5°	38.1	77.3	75.2	77.3	76.3
85°	22.9	38.1	39.2	38.1	35.9
87.5°	10.9	14.2	10.9	9.8	8.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)