

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: P263496

Luminaire Tested: **24CZ-LD5-30-RDP-UNV-L83050-W2A1-U-5000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P263496  
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-LD5-30-RDP-UNV-L83050-W2A1-U-5000K  
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER  
WITH RDP LENS  
Light Source: (336) 80 CRI LEDS TUNED AT 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2262.0 lumens  
Efficiency: N/A  
Efficacy: 109.9 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

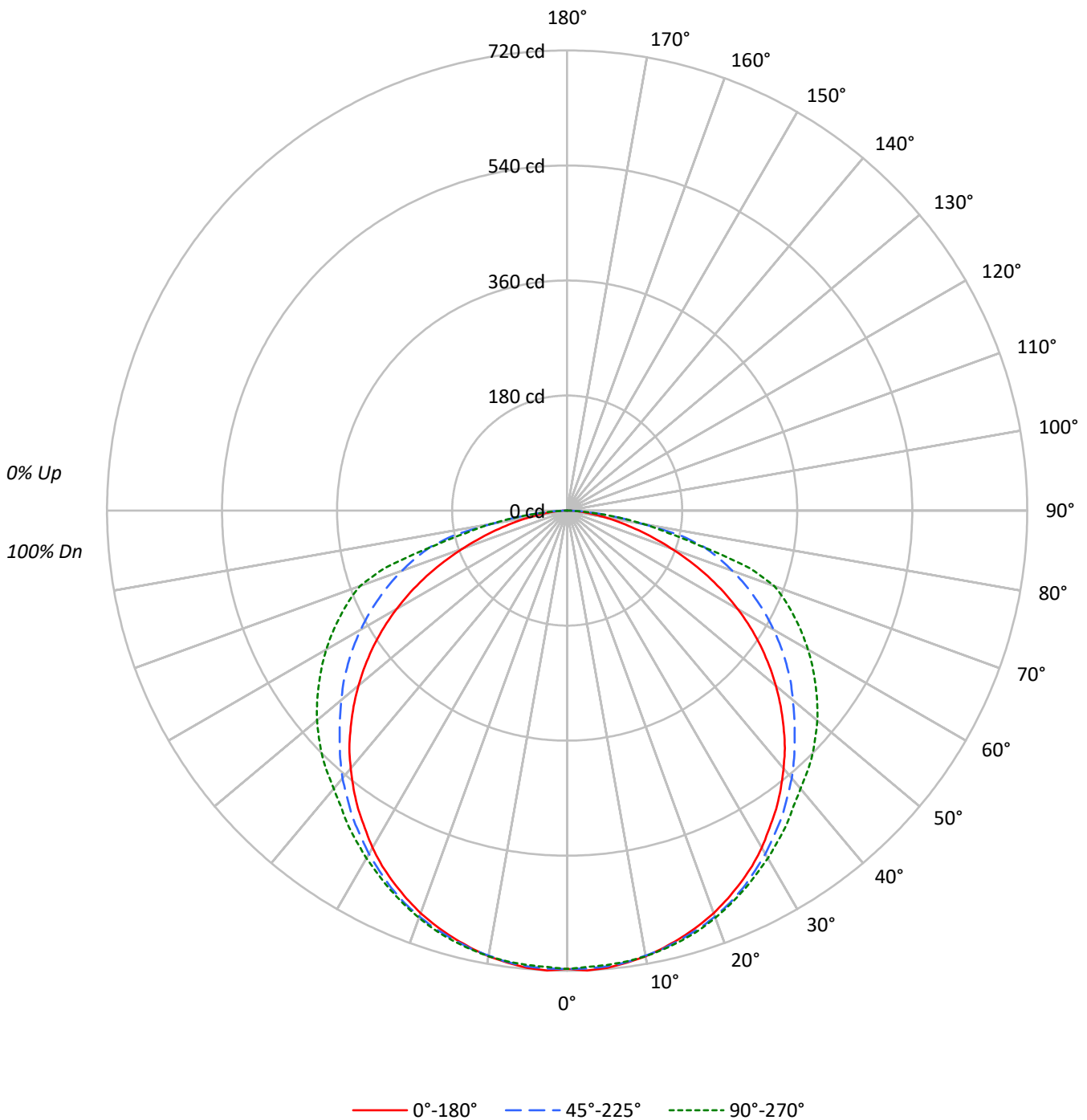
Input Watts (W): 20.584527  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	965	965	965
5°	970	967	964
10°	968	966	968
15°	963	966	969
20°	960	968	971
25°	954	967	972
30°	946	964	976
35°	936	962	984
40°	925	960	997
45°	911	958	1032
50°	893	965	1070
55°	867	982	1113
60°	830	1004	1172
65°	773	1035	1248
70°	683	1082	1358
75°	573	1158	1141
80°	457	914	949
85°	361	619	567



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	68.0	3.0
10°-20°	195.7	8.7
20°-30°	299.0	13.2
30°-40°	365.5	16.2
40°-50°	391.3	17.3
50°-60°	375.3	16.6
60°-70°	316.9	14.0
70°-80°	202.5	9.0
80°-90°	47.9	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°	562.7	24.9
0°-40°	928.2	41.0
0°-60°	1694.8	74.9
0°-90°	2262.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2262.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	717	717	717	717	717	
5°	718	714	716	715	714	68
15°	692	689	694	696	696	195
25°	642	641	651	654	655	296
35°	570	574	586	594	599	356
45°	479	487	503	527	542	369
55°	370	382	419	456	474	330
65°	243	266	325	371	392	239
75°	110	157	223	227	219	119
85°	23	39	40	39	37	28
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	717.1	717.1	717.1	717.1	717.1
2.5°	720.4	716.0	717.1	717.1	714.8
5°	718.2	713.7	716.0	714.8	713.7
7.5°	713.7	710.4	712.6	712.6	711.5
10°	708.2	704.8	707.1	708.2	708.2
12.5°	700.4	698.1	701.5	701.5	702.6
15°	691.5	689.2	693.7	695.9	695.9
17.5°	681.4	680.3	685.9	687.0	688.1
20°	670.3	669.2	675.9	675.9	678.1
22.5°	656.9	655.8	664.7	664.7	667.0
25°	642.5	641.4	651.4	653.6	654.7
27.5°	626.9	625.8	635.8	639.1	641.4
30°	609.1	609.1	620.2	624.7	628.0
32.5°	589.0	592.4	602.4	609.1	613.5
35°	570.1	574.5	585.7	593.5	599.0
37.5°	548.9	553.4	565.6	575.7	582.3
40°	526.7	532.2	546.7	557.8	567.9
42.5°	504.4	510.0	525.6	542.3	555.6
45°	478.8	486.6	503.3	526.7	542.3
47.5°	453.2	461.0	482.1	511.1	526.7
50°	426.5	435.4	461.0	494.4	511.1
52.5°	398.6	408.6	440.9	476.6	493.3
55°	369.7	381.9	418.7	456.5	474.3
57.5°	339.6	353.0	396.4	436.5	455.4
60°	308.4	325.1	373.0	415.3	435.4
62.5°	276.1	296.2	349.6	393.1	414.2
65°	242.7	266.1	325.1	370.8	391.9
67.5°	208.2	239.4	300.6	348.5	369.7
70°	173.7	210.4	275.0	324.0	345.2
72.5°	141.4	183.7	249.4	295.1	299.5
75°	110.2	157.0	222.7	227.1	219.4
77.5°	82.4	130.3	183.7	163.7	162.6
80°	59.0	104.7	118.0	121.4	122.5
82.5°	39.0	79.1	76.8	79.1	77.9
85°	23.4	39.0	40.1	39.0	36.7
87.5°	11.1	14.5	11.1	10.0	8.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)