

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: P260413

Luminaire Tested: **22CZ-LD5-44-RDP-UNV-L83050-W2A1-U-5000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P260413  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25714)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22CZ-LD5-44-RDP-UNV-L83050-W2A1-U-5000K  
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER  
WITH RDP LENS  
Light Source: (168) 80 CRI LEDS TUNED AT 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3451.0 lumens  
Efficiency: N/A  
Efficacy: 95.1 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.36  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

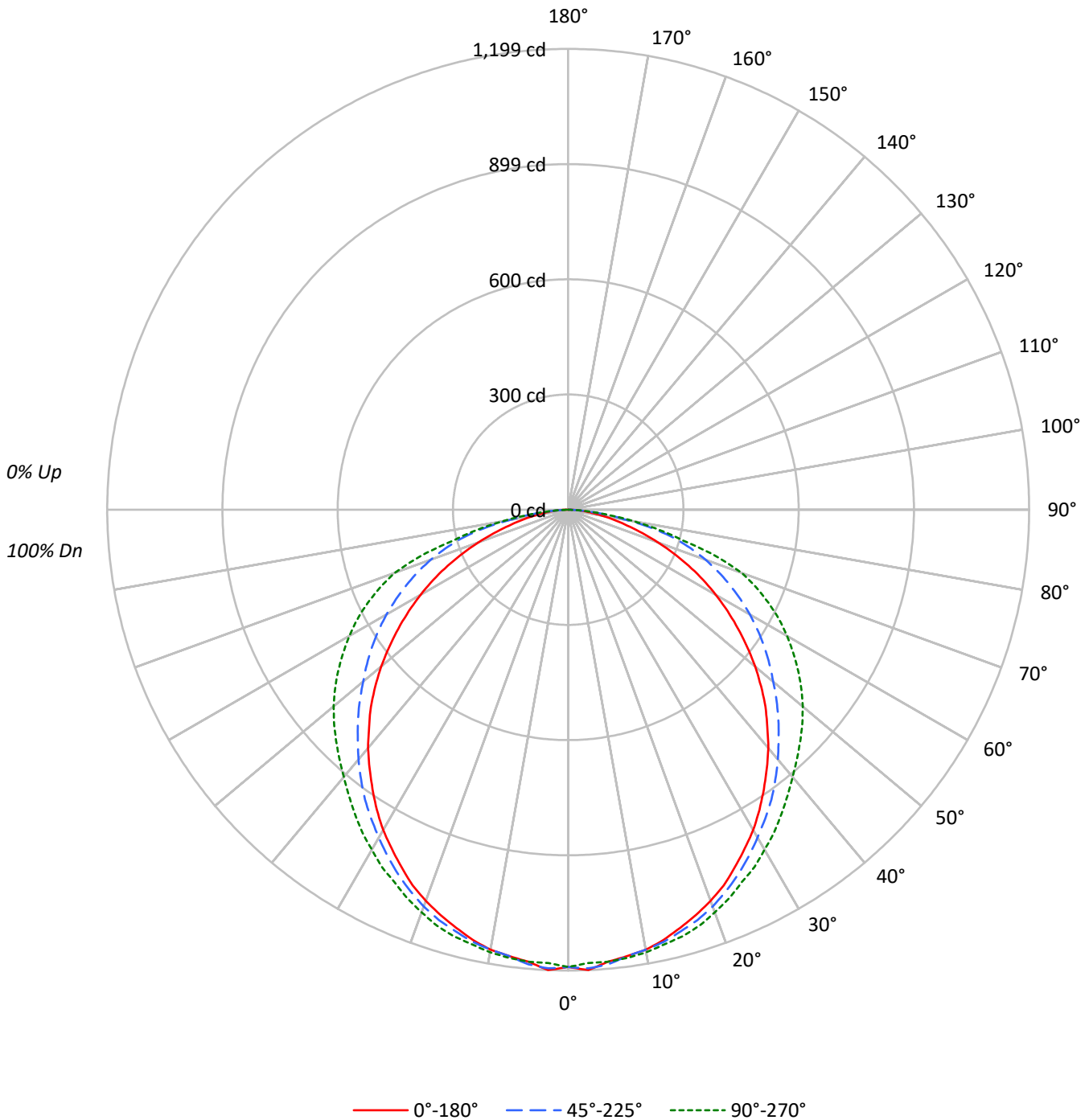
Input Watts (W): 36.27  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	108	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85
2	98	90	83	77	96	88	81	76	84	79	74	81	77	73	78	74	71
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60
4	82	69	60	54	79	68	60	53	66	58	52	63	57	52	61	56	51
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39
7	64	50	42	35	62	50	41	35	48	40	35	47	40	35	45	39	34
8	60	46	37	31	58	45	37	31	44	37	31	43	36	31	42	35	31
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28
10	52	39	31	26	51	38	31	26	37	30	25	36	30	25	36	30	25

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	3202	3202	3202
5°	3189	3208	3189
10°	3177	3177	3195
15°	3137	3163	3200
20°	3101	3147	3192
25°	3046	3107	3175
30°	2990	3061	3174
35°	2915	3027	3176
40°	2845	2981	3189
45°	2762	2944	3247
50°	2657	2914	3333
55°	2530	2924	3426
60°	2387	2939	3538
65°	2202	2955	3665
70°	1951	2989	3777
75°	1655	2980	3217
80°	1375	2397	2679
85°	1195	1615	1544



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	112.4	3.3
10°-20°	320.6	9.3
20°-30°	482.4	14.0
30°-40°	578.1	16.8
40°-50°	602.9	17.5
50°-60°	561.3	16.3
60°-70°	455.7	13.2
70°-80°	274.6	8.0
80°-90°	63.0	1.8
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°	915.5	26.5
0°-40°	1493.5	43.3
0°-60°	2657.7	77.0
0°-90°	3451.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3451.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1190	1190	1190	1190	1190	
5°	1181	1181	1188	1190	1181	112
15°	1126	1131	1135	1142	1149	318
25°	1026	1033	1046	1060	1069	473
35°	887	899	921	949	967	555
45°	726	739	774	824	853	559
55°	539	562	623	692	730	482
65°	346	382	464	537	576	342
75°	159	212	287	305	309	172
85°	39	48	52	50	50	45
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1189.8	1189.8	1189.8	1189.8	1189.8
2.5°	1198.9	1196.6	1194.3	1187.5	1180.7
5°	1180.7	1180.7	1187.5	1189.8	1180.7
7.5°	1171.6	1171.6	1171.6	1180.7	1176.1
10°	1162.5	1162.5	1162.5	1169.3	1169.3
12.5°	1146.6	1148.8	1151.1	1153.4	1157.9
15°	1126.1	1130.6	1135.2	1142.0	1148.8
17.5°	1105.6	1110.2	1119.3	1126.1	1135.2
20°	1082.9	1087.4	1098.8	1105.6	1114.7
22.5°	1057.8	1060.1	1073.8	1082.9	1094.2
25°	1026.0	1032.8	1046.5	1060.1	1069.2
27.5°	994.1	1001.0	1016.9	1035.1	1048.7
30°	962.3	969.1	985.0	1007.8	1021.4
32.5°	925.9	935.0	953.2	980.5	996.4
35°	887.2	898.6	921.3	948.6	966.8
37.5°	848.5	859.9	884.9	919.1	937.3
40°	809.9	821.2	848.5	884.9	907.7
42.5°	766.6	780.3	809.9	853.1	880.4
45°	725.7	739.3	773.5	823.5	853.1
47.5°	680.2	696.1	734.8	791.7	825.8
50°	634.7	652.9	696.1	759.8	796.2
52.5°	586.9	607.4	659.7	725.7	764.4
55°	539.2	561.9	623.3	691.6	730.2
57.5°	491.4	516.4	584.7	655.2	693.8
60°	443.6	470.9	546.0	618.8	657.4
62.5°	395.8	425.4	505.0	577.8	618.8
65°	345.8	382.2	464.1	536.9	575.6
67.5°	295.7	339.0	423.1	493.7	530.1
70°	248.0	295.7	379.9	445.9	480.0
72.5°	202.5	252.5	334.4	391.3	404.9
75°	159.2	211.6	286.6	304.8	309.4
77.5°	122.8	170.6	227.5	232.0	243.4
80°	88.7	129.7	154.7	168.3	172.9
82.5°	61.4	88.7	102.4	104.6	106.9
85°	38.7	47.8	52.3	50.0	50.0
87.5°	20.5	18.2	15.9	11.4	9.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)