

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: P260497

Luminaire Tested: **22CZ-LD5-44-RDP-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260497
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-L82765-W2A1-U-6500K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3403.0 lumens
Efficiency: N/A
Efficacy: 94.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.28 / 1.36
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

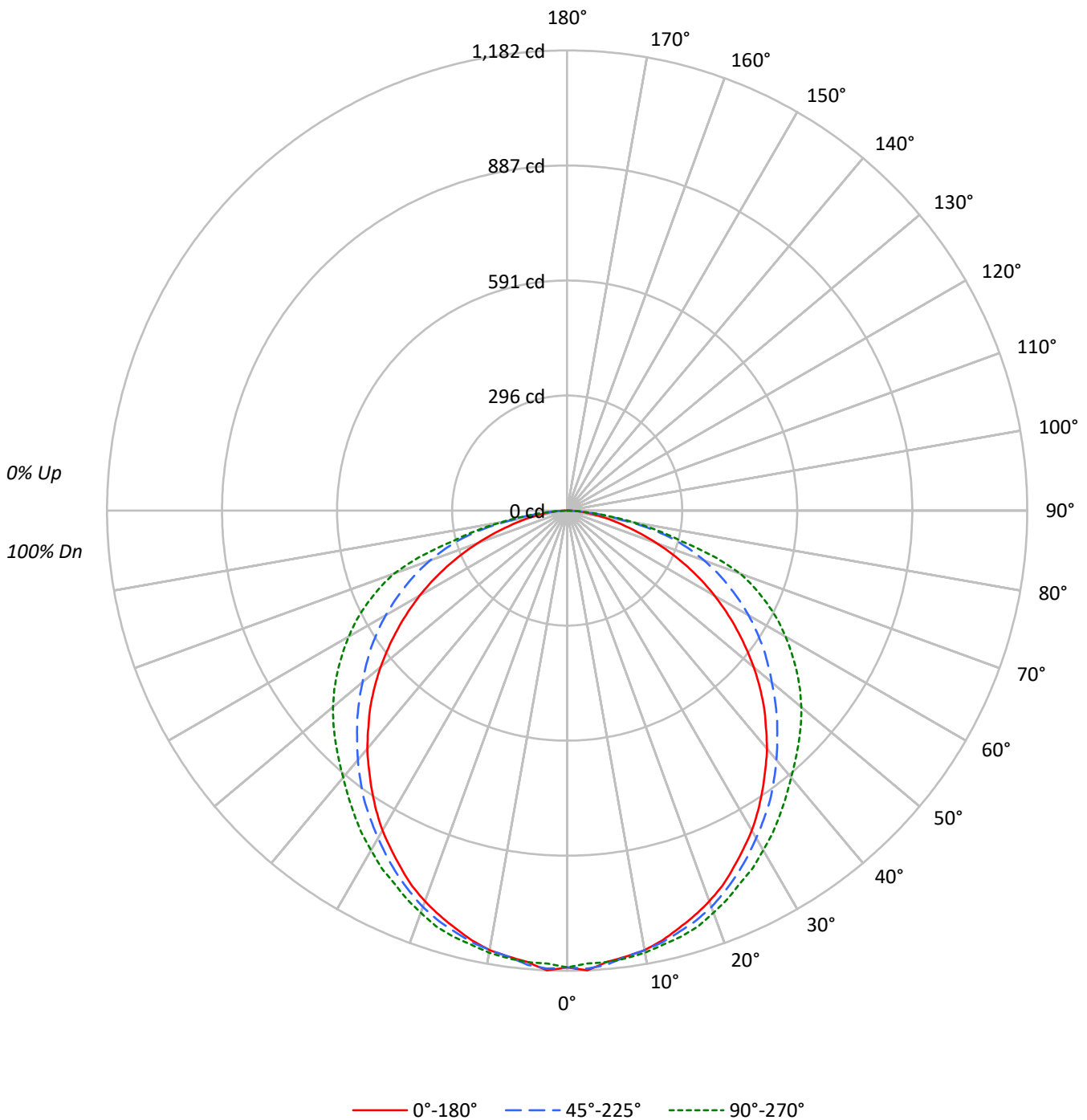
Input Watts (W): 36.177
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	104	99	95	106	101	97	94	97	94	91		93	90	88		89	87	85	83
2	98	90	83	77	96	88	81	76	84	79	74		81	77	73		78	74	71	69
3	89	79	70	64	87	77	69	63	74	67	62		71	66	61		69	64	60	57
4	82	69	60	54	79	68	60	53	66	58	52		63	57	52		61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45		57	50	45		55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40		51	44	39		50	44	39	37
7	64	50	42	35	62	50	41	35	48	40	35		47	40	35		45	39	34	32
8	60	46	37	31	58	45	37	31	44	37	31		43	36	31		42	35	31	29
9	56	42	34	28	54	42	34	28	40	33	28		39	33	28		38	32	28	26
10	52	39	31	26	51	38	31	26	37	30	25		36	30	25		36	30	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3157	3157	3157
5°	3145	3163	3145
10°	3132	3132	3151
15°	3093	3119	3156
20°	3058	3103	3148
25°	3004	3064	3130
30°	2948	3018	3130
35°	2874	2984	3132
40°	2805	2939	3144
45°	2723	2903	3201
50°	2620	2874	3287
55°	2495	2884	3378
60°	2354	2898	3489
65°	2171	2914	3613
70°	1924	2947	3724
75°	1632	2939	3172
80°	1356	2363	2642
85°	1176	1593	1525



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.8	3.3
10°-20°	316.2	9.3
20°-30°	475.7	14.0
30°-40°	570.0	16.8
40°-50°	594.5	17.5
50°-60°	553.5	16.3
60°-70°	449.4	13.2
70°-80°	270.8	8.0
80°-90°	62.1	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°	902.7	26.5
0°-40°	1472.7	43.3
0°-60°	2620.7	77.0
0°-90°	3403.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3403.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1173	1173	1173	1173	1173	
5°	1164	1164	1171	1173	1164	111
15°	1110	1115	1119	1126	1133	313
25°	1012	1018	1032	1045	1054	466
35°	875	886	908	935	953	548
45°	716	729	763	812	841	551
55°	532	554	615	682	720	475
65°	341	377	458	529	568	337
75°	157	209	283	301	305	170
85°	38	47	52	49	49	44
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1173.2	1173.2	1173.2	1173.2	1173.2
2.5°	1182.2	1180.0	1177.7	1171.0	1164.3
5°	1164.3	1164.3	1171.0	1173.2	1164.3
7.5°	1155.3	1155.3	1155.3	1164.3	1159.8
10°	1146.3	1146.3	1146.3	1153.0	1153.0
12.5°	1130.6	1132.8	1135.1	1137.3	1141.8
15°	1110.4	1114.9	1119.4	1126.1	1132.8
17.5°	1090.2	1094.7	1103.7	1110.4	1119.4
20°	1067.8	1072.3	1083.5	1090.2	1099.2
22.5°	1043.1	1045.4	1058.8	1067.8	1079.0
25°	1011.7	1018.4	1031.9	1045.4	1054.3
27.5°	980.3	987.0	1002.7	1020.7	1034.1
30°	948.9	955.6	971.3	993.8	1007.2
32.5°	913.0	922.0	939.9	966.8	982.5
35°	874.9	886.1	908.5	935.4	953.4
37.5°	836.7	848.0	872.6	906.3	924.2
40°	798.6	809.8	836.7	872.6	895.1
42.5°	756.0	769.4	798.6	841.2	868.1
45°	715.6	729.1	762.7	812.1	841.2
47.5°	670.7	686.4	724.6	780.7	814.3
50°	625.9	643.8	686.4	749.2	785.1
52.5°	578.8	599.0	650.5	715.6	753.7
55°	531.7	554.1	614.7	682.0	720.1
57.5°	484.5	509.2	576.5	646.1	684.2
60°	437.4	464.4	538.4	610.2	648.3
62.5°	390.3	419.5	498.0	569.8	610.2
65°	341.0	376.9	457.6	529.4	567.5
67.5°	291.6	334.2	417.2	486.8	522.7
70°	244.5	291.6	374.6	439.7	473.3
72.5°	199.7	249.0	329.8	385.8	399.3
75°	157.0	208.6	282.7	300.6	305.1
77.5°	121.1	168.2	224.3	228.8	240.0
80°	87.5	127.9	152.5	166.0	170.5
82.5°	60.6	87.5	100.9	103.2	105.4
85°	38.1	47.1	51.6	49.4	49.4
87.5°	20.2	17.9	15.7	11.2	9.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)