

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: P260411

Luminaire Tested: **22CZ-LD5-44-RDP-UNV-L83050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260411
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-4000K
Description: CRUZE 2x2 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: 3419.0 lumens
Efficiency: N/A
Efficacy: 96.5 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

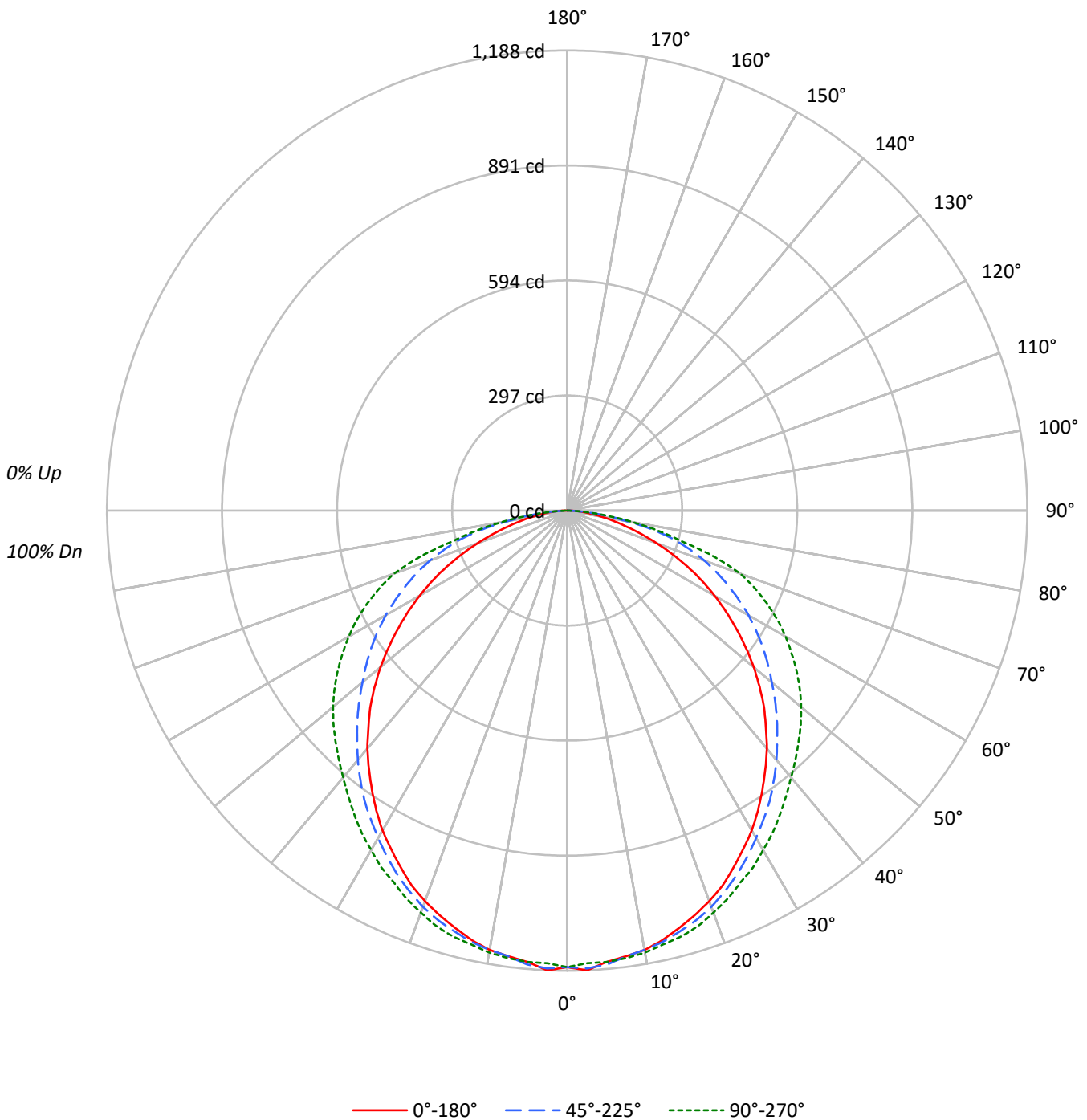
Input Watts (W): 35.433
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	108	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83					83			
2	98	90	83	77	96	88	81	76	84	79	74	81	77	73	78	74	71	69					69			
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	57					57			
4	82	69	60	54	79	68	60	53	66	58	52	63	57	52	61	56	51	49					49			
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42					42			
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37					37			
7	64	50	42	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32					32			
8	60	46	37	31	58	45	37	31	44	37	31	43	36	31	42	35	31	29					29			
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26					26			
10	52	39	31	26	51	38	31	26	37	30	25	36	30	25	36	30	25	23					23			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3172	3172	3172
5°	3160	3178	3160
10°	3147	3147	3166
15°	3108	3133	3171
20°	3072	3117	3163
25°	3018	3078	3145
30°	2962	3032	3145
35°	2888	2999	3147
40°	2819	2953	3159
45°	2736	2916	3217
50°	2632	2887	3302
55°	2506	2897	3394
60°	2365	2911	3506
65°	2181	2928	3631
70°	1933	2961	3742
75°	1641	2953	3187
80°	1362	2376	2655
85°	1183	1599	1531



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.4	3.3
10°-20°	317.7	9.3
20°-30°	477.9	14.0
30°-40°	572.7	16.8
40°-50°	597.3	17.5
50°-60°	556.1	16.3
60°-70°	451.5	13.2
70°-80°	272.1	8.0
80°-90°	62.4	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°	907.0	26.5
0°-40°	1479.7	43.3
0°-60°	2633.0	77.0
0°-90°	3419.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3419.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1179	1179	1179	1179	1179	
5°	1170	1170	1176	1179	1170	111
15°	1116	1120	1125	1131	1138	315
25°	1016	1023	1037	1050	1059	468
35°	879	890	913	940	958	550
45°	719	732	766	816	845	553
55°	534	557	618	685	724	478
65°	343	379	460	532	570	339
75°	158	210	284	302	306	170
85°	38	47	52	50	50	44
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1178.7	1178.7	1178.7	1178.7	1178.7
2.5°	1187.8	1185.5	1183.3	1176.5	1169.7
5°	1169.7	1169.7	1176.5	1178.7	1169.7
7.5°	1160.7	1160.7	1160.7	1169.7	1165.2
10°	1151.7	1151.7	1151.7	1158.5	1158.5
12.5°	1135.9	1138.2	1140.4	1142.7	1147.2
15°	1115.6	1120.1	1124.7	1131.4	1138.2
17.5°	1095.4	1099.9	1108.9	1115.6	1124.7
20°	1072.8	1077.3	1088.6	1095.4	1104.4
22.5°	1048.0	1050.3	1063.8	1072.8	1084.1
25°	1016.5	1023.2	1036.8	1050.3	1059.3
27.5°	984.9	991.7	1007.5	1025.5	1039.0
30°	953.4	960.1	975.9	998.4	1012.0
32.5°	917.3	926.3	944.3	971.4	987.2
35°	879.0	890.3	912.8	939.8	957.9
37.5°	840.7	851.9	876.7	910.5	928.6
40°	802.4	813.6	840.7	876.7	899.3
42.5°	759.5	773.1	802.4	845.2	872.2
45°	719.0	732.5	766.3	815.9	845.2
47.5°	673.9	689.7	728.0	784.3	818.1
50°	628.8	646.8	689.7	752.8	788.8
52.5°	581.5	601.8	653.6	719.0	757.3
55°	534.2	556.7	617.5	685.2	723.5
57.5°	486.8	511.6	579.2	649.1	687.4
60°	439.5	466.5	540.9	613.0	651.4
62.5°	392.2	421.5	500.3	572.5	613.0
65°	342.6	378.6	459.8	531.9	570.2
67.5°	293.0	335.8	419.2	489.1	525.1
70°	245.7	293.0	376.4	441.7	475.6
72.5°	200.6	250.2	331.3	387.7	401.2
75°	157.8	209.6	284.0	302.0	306.5
77.5°	121.7	169.0	225.4	229.9	241.2
80°	87.9	128.5	153.3	166.8	171.3
82.5°	60.9	87.9	101.4	103.7	105.9
85°	38.3	47.3	51.8	49.6	49.6
87.5°	20.3	18.0	15.8	11.3	9.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)