

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: P275552

Luminaire Tested: **14CZ2-44-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P275552  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-49)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 14CZ2-44-UNV-L92765-W2A1-U-5000K  
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER  
WITH RIBBED LENS  
Light Source: (168) 90 CRI LEDS TUNED TO 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3975.0 lumens  
Efficiency: N/A  
Efficacy: 109.0 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.37  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

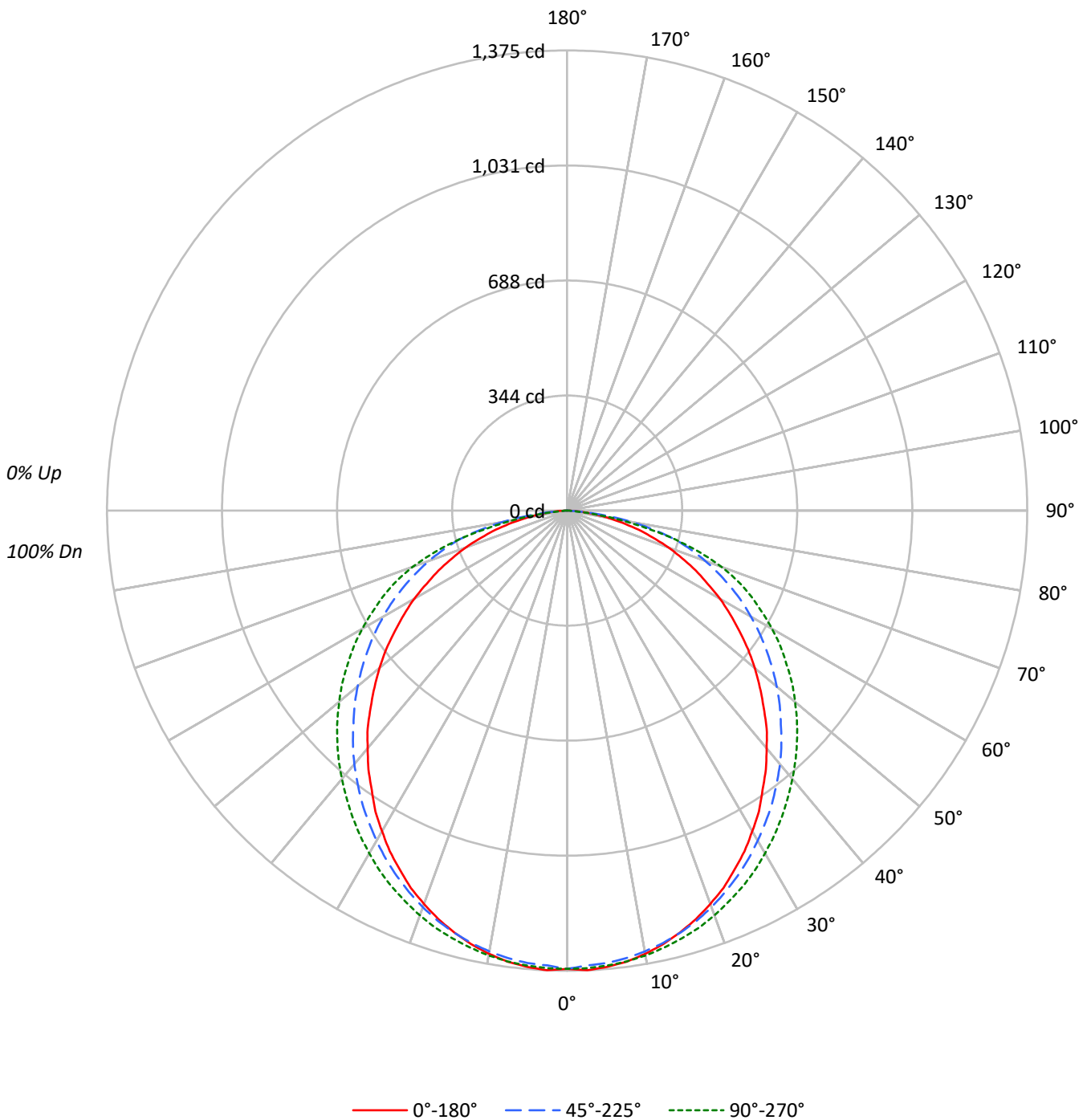
Input Watts (W): 36.456  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	109	104	99	95	106	101	97	94	97	94	91	93	90	88	90	87	85	83					83			
2	98	90	83	77	96	88	82	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	58					58			
4	82	70	61	54	79	68	60	53	66	58	53	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	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	34	32					32			
8	60	46	37	32	58	45	37	31	44	37	31	43	36	31	42	35	31	29					29			
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26					26			
10	52	39	31	26	51	39	31	26	37	30	26	37	30	25	36	30	25	24					24			

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

	0°	45°	90°
0°	3685	3685	3685
5°	3697	3666	3687
10°	3674	3655	3689
15°	3635	3637	3687
20°	3581	3612	3686
25°	3513	3576	3682
30°	3437	3539	3674
35°	3346	3508	3672
40°	3257	3475	3677
45°	3157	3437	3697
50°	3065	3421	3722
55°	2948	3410	3755
60°	2843	3415	3807
65°	2698	3426	3866
70°	2531	3452	3863
75°	2295	3483	3492
80°	1881	3008	2486
85°	1396	1423	574



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	129.6	3.3
10°-20°	370.2	9.3
20°-30°	557.6	14.0
30°-40°	669.1	16.8
40°-50°	697.4	17.5
50°-60°	645.7	16.2
60°-70°	521.7	13.1
70°-80°	318.1	8.0
80°-90°	65.7	1.7
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°	1057.4	26.6
0°-40°	1726.5	43.4
0°-60°	3069.6	77.2
0°-90°	3975.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3975.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1369	1369	1369	1369	1369	
5°	1368	1365	1357	1367	1365	130
15°	1305	1306	1306	1323	1323	368
25°	1183	1190	1204	1235	1240	545
35°	1018	1034	1068	1107	1118	638
45°	830	854	903	954	971	641
55°	628	661	727	784	800	563
65°	424	465	538	592	607	419
75°	221	269	335	340	336	232
85°	45	67	46	26	19	56
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1369.4	1369.4	1369.4	1369.4	1369.4
2.5°	1374.7	1370.3	1360.5	1370.3	1368.5
5°	1368.5	1365.0	1357.0	1366.7	1365.0
7.5°	1359.7	1356.1	1349.0	1360.5	1358.8
10°	1344.6	1342.8	1337.5	1350.8	1349.9
12.5°	1326.9	1326.0	1323.3	1338.4	1337.5
15°	1304.7	1305.6	1305.6	1323.3	1323.3
17.5°	1279.9	1281.7	1285.2	1304.7	1307.4
20°	1250.6	1254.2	1261.3	1283.4	1287.0
22.5°	1220.5	1223.2	1233.8	1260.4	1263.9
25°	1183.3	1190.4	1204.5	1234.7	1240.0
27.5°	1147.8	1154.0	1173.5	1204.5	1213.4
30°	1106.2	1115.9	1139.0	1172.6	1182.4
32.5°	1066.3	1076.9	1103.5	1142.5	1151.4
35°	1018.4	1034.4	1068.0	1107.0	1117.7
37.5°	975.0	990.0	1028.2	1070.7	1083.1
40°	927.1	945.7	989.2	1034.4	1046.8
42.5°	882.8	900.5	947.5	993.6	1010.4
45°	829.6	854.4	903.2	953.7	971.4
47.5°	780.9	805.7	861.5	915.6	931.5
50°	732.1	758.7	817.2	873.0	889.0
52.5°	681.6	710.0	772.9	828.7	847.3
55°	628.4	661.2	726.8	783.5	800.4
57.5°	577.9	611.6	681.6	739.2	756.1
60°	528.3	562.8	634.6	689.6	707.3
62.5°	473.3	514.1	588.5	642.6	655.9
65°	423.7	465.3	538.0	592.1	607.1
67.5°	371.4	416.6	489.3	538.9	553.1
70°	321.7	368.7	438.7	484.8	491.0
72.5°	268.6	316.4	387.3	416.6	416.6
75°	220.7	269.4	335.0	340.4	335.9
77.5°	168.4	222.5	265.0	254.4	243.7
80°	121.4	174.6	194.1	174.6	160.4
82.5°	81.5	126.7	117.0	93.1	82.4
85°	45.2	67.4	46.1	25.7	18.6
87.5°	16.8	15.1	4.4	4.4	4.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)