

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: P275648

Luminaire Tested: **14CZ2-35-S-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275648
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-40)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ2-35-S-UNV-L82765-W2A1-U-5000K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER
WITH SMOOTH LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3627.0 lumens
Efficiency: N/A
Efficacy: 129.1 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.26 / 1.36
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

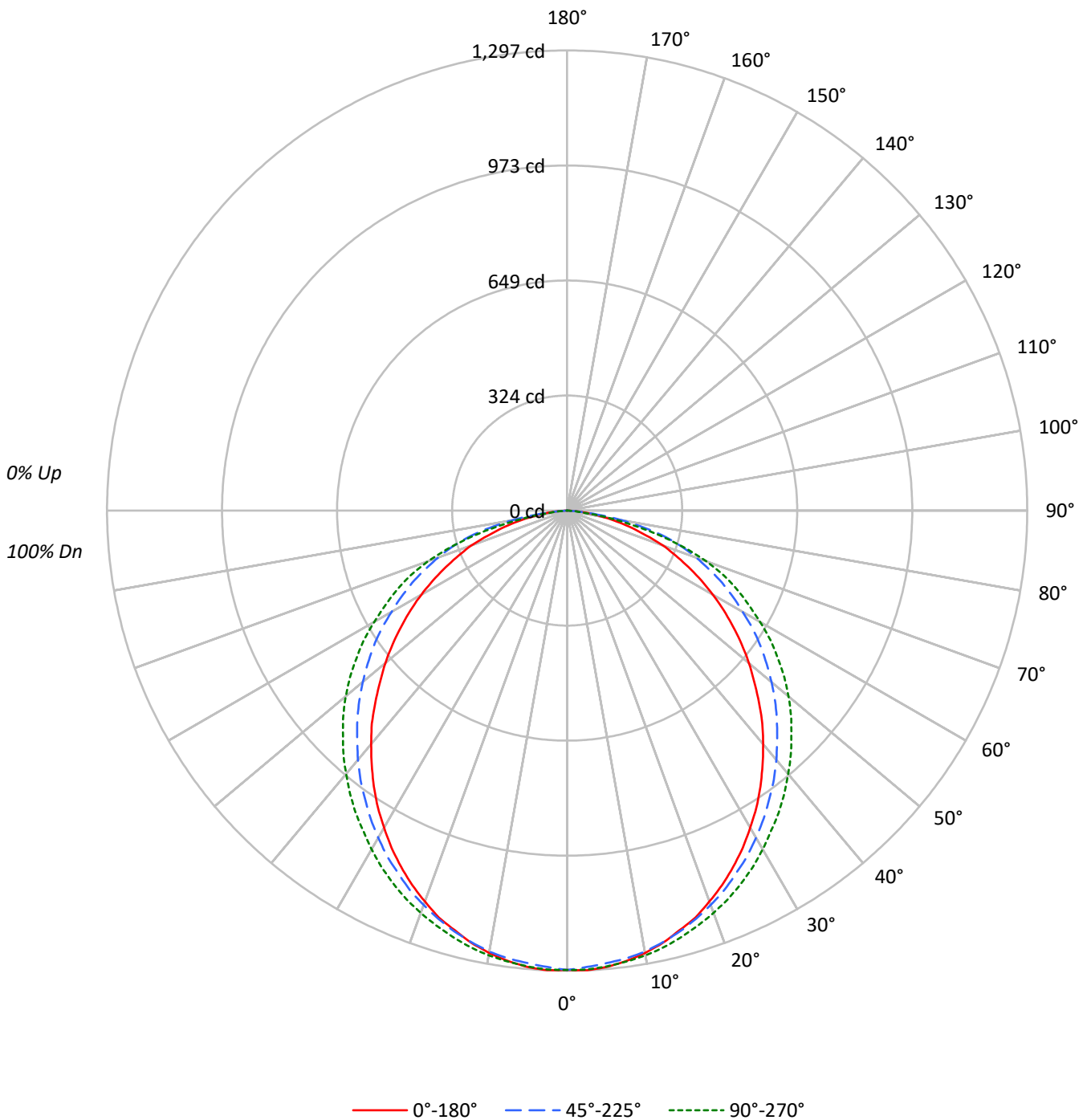
Input Watts (W): 28.086
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100	96	106	102	98	94	97	94	91	94	91	89	90	88	86	84					84			
2	99	90	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	70					70			
3	90	79	71	65	87	78	70	64	75	68	63	72	66	62	69	65	61	58					58			
4	82	70	61	55	80	69	61	54	66	59	53	64	58	53	62	56	52	50					50			
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	43					43			
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	38					38			
7	65	51	42	36	63	50	42	36	49	41	36	47	41	35	46	40	35	33					33			
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30					30			
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	28	27					27			
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24					24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3484	3484	3484
5°	3488	3459	3483
10°	3459	3449	3479
15°	3412	3422	3467
20°	3358	3389	3456
25°	3289	3348	3444
30°	3207	3308	3425
35°	3119	3261	3415
40°	3020	3222	3405
45°	2909	3182	3401
50°	2801	3147	3410
55°	2683	3122	3400
60°	2555	3078	3378
65°	2404	3068	3378
70°	2264	3042	3282
75°	1963	2973	2804
80°	1588	2397	1867
85°	1056	834	556



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.3	3.4
10°-20°	347.9	9.6
20°-30°	521.9	14.4
30°-40°	622.6	17.2
40°-50°	643.6	17.7
50°-60°	587.6	16.2
60°-70°	462.4	12.7
70°-80°	269.2	7.4
80°-90°	49.6	1.4
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°	992.1	27.4
0°-40°	1614.6	44.5
0°-60°	2845.8	78.5
0°-90°	3627.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3627.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1295	1295	1295	1295	1295	
5°	1291	1288	1280	1291	1289	122
15°	1225	1226	1228	1244	1244	346
25°	1108	1113	1128	1154	1160	510
35°	950	962	993	1030	1039	593
45°	764	790	836	883	894	590
55°	572	602	665	714	725	511
65°	378	417	482	520	530	375
75°	189	234	286	280	270	201
85°	34	49	27	22	18	44
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1294.8	1294.8	1294.8	1294.8	1294.8
2.5°	1296.6	1293.0	1287.6	1296.6	1294.8
5°	1291.2	1287.6	1280.4	1291.2	1289.4
7.5°	1280.4	1276.8	1273.2	1284.0	1282.2
10°	1266.0	1264.2	1262.4	1275.0	1273.2
12.5°	1248.0	1248.0	1246.2	1260.6	1260.6
15°	1224.6	1226.4	1228.2	1244.4	1244.4
17.5°	1203.1	1201.3	1206.7	1224.6	1226.4
20°	1172.5	1176.1	1183.3	1204.9	1206.7
22.5°	1141.9	1145.5	1158.1	1179.7	1185.1
25°	1107.8	1113.2	1127.5	1154.5	1159.9
27.5°	1071.8	1079.0	1098.8	1127.5	1132.9
30°	1032.2	1043.0	1064.6	1097.0	1102.4
32.5°	992.7	1003.5	1030.4	1062.8	1070.0
35°	949.5	962.1	992.7	1030.4	1039.4
37.5°	904.5	920.7	956.7	994.5	1005.3
40°	859.6	877.6	917.1	956.7	969.3
42.5°	814.6	832.6	875.8	920.7	933.3
45°	764.3	789.5	836.2	883.0	893.8
47.5°	715.7	742.7	794.9	841.6	856.0
50°	669.0	695.9	751.7	800.2	814.6
52.5°	620.4	649.2	708.5	758.9	771.5
55°	571.9	602.4	665.4	713.9	724.7
57.5°	523.3	555.7	620.4	667.2	679.8
60°	474.8	508.9	571.9	618.6	627.6
62.5°	426.2	462.2	526.9	568.3	577.3
65°	377.6	417.2	481.9	519.7	530.5
67.5°	330.9	370.5	433.4	469.4	478.3
70°	287.7	323.7	386.6	413.6	417.2
72.5°	233.8	278.7	339.9	354.3	345.3
75°	188.8	233.8	285.9	280.5	269.7
77.5°	143.9	188.8	223.0	205.0	190.6
80°	102.5	147.5	154.7	127.7	120.5
82.5°	66.5	102.5	86.3	66.5	53.9
85°	34.2	48.6	27.0	21.6	18.0
87.5°	10.8	7.2	3.6	3.6	1.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)