

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: P275651

Luminaire Tested: **14CZ2-35-S-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275651
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-6500K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER
WITH SMOOTH LENS
Light Source: (168) 80 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3682.0 lumens
Efficiency: N/A
Efficacy: 128.5 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

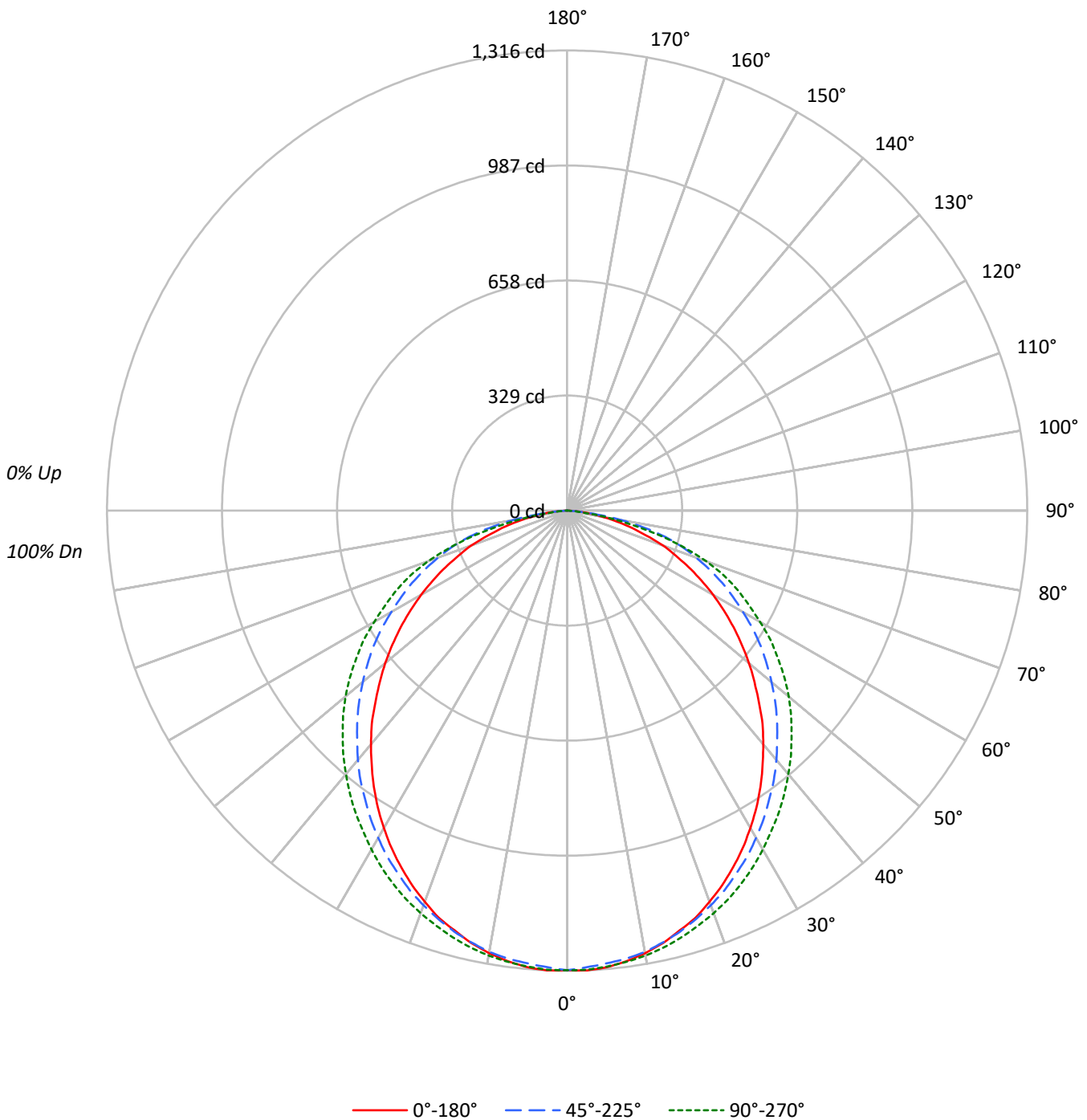
Input Watts (W): 28.644
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	104	100	96	106	102	98	94	97	94	91	94	91	89	90	88	86	84
2	99	90	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	70
3	90	79	71	65	87	78	70	64	75	68	63	72	66	62	69	65	61	58
4	82	70	61	55	80	69	61	54	66	59	53	64	58	53	62	56	52	50
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	43
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	38
7	65	51	42	36	63	50	42	36	49	41	36	47	41	35	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	28	27
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3537	3537	3537
5°	3541	3511	3536
10°	3512	3502	3532
15°	3463	3474	3519
20°	3409	3440	3508
25°	3339	3399	3496
30°	3256	3358	3477
35°	3166	3310	3466
40°	3065	3270	3457
45°	2953	3231	3453
50°	2843	3195	3462
55°	2723	3169	3452
60°	2594	3124	3429
65°	2441	3116	3429
70°	2298	3088	3332
75°	1993	3018	2847
80°	1613	2433	1895
85°	1071	846	565



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.1	3.4
10°-20°	353.2	9.6
20°-30°	529.8	14.4
30°-40°	632.0	17.2
40°-50°	653.4	17.7
50°-60°	596.5	16.2
60°-70°	469.4	12.7
70°-80°	273.3	7.4
80°-90°	50.4	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°	1007.1	27.4
0°-40°	1639.1	44.5
0°-60°	2889.0	78.5
0°-90°	3682.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3682.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1314	1314	1314	1314	1314	
5°	1311	1307	1300	1311	1309	124
15°	1243	1245	1247	1263	1263	351
25°	1125	1130	1145	1172	1178	518
35°	964	977	1008	1046	1055	603
45°	776	801	849	896	907	599
55°	580	612	676	725	736	519
65°	383	424	489	528	538	381
75°	192	237	290	285	274	204
85°	35	49	27	22	18	45
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1314.4	1314.4	1314.4	1314.4	1314.4
2.5°	1316.2	1312.6	1307.1	1316.2	1314.4
5°	1310.8	1307.1	1299.8	1310.8	1308.9
7.5°	1299.8	1296.2	1292.5	1303.5	1301.6
10°	1285.2	1283.4	1281.6	1294.3	1292.5
12.5°	1266.9	1266.9	1265.1	1279.7	1279.7
15°	1243.2	1245.0	1246.9	1263.3	1263.3
17.5°	1221.3	1219.5	1225.0	1243.2	1245.0
20°	1190.3	1193.9	1201.2	1223.1	1225.0
22.5°	1159.2	1162.9	1175.7	1197.6	1203.1
25°	1124.6	1130.0	1144.6	1172.0	1177.5
27.5°	1088.0	1095.3	1115.4	1144.6	1150.1
30°	1047.9	1058.8	1080.7	1113.6	1119.1
32.5°	1007.7	1018.7	1046.1	1078.9	1086.2
35°	963.9	976.7	1007.7	1046.1	1055.2
37.5°	918.3	934.7	971.2	1009.5	1020.5
40°	872.6	890.9	931.0	971.2	984.0
42.5°	827.0	845.2	889.1	934.7	947.5
45°	775.9	801.4	848.9	896.4	907.3
47.5°	726.6	754.0	806.9	854.4	869.0
50°	679.1	706.5	763.1	812.4	827.0
52.5°	629.8	659.0	719.3	770.4	783.2
55°	580.5	611.6	675.5	724.8	735.7
57.5°	531.2	564.1	629.8	677.3	690.1
60°	482.0	516.6	580.5	628.0	637.1
62.5°	432.7	469.2	534.9	576.9	586.0
65°	383.4	423.5	489.3	527.6	538.5
67.5°	335.9	376.1	440.0	476.5	485.6
70°	292.1	328.6	392.5	419.9	423.5
72.5°	237.3	283.0	345.0	359.6	350.5
75°	191.7	237.3	290.3	284.8	273.8
77.5°	146.0	191.7	226.4	208.1	193.5
80°	104.1	149.7	157.0	129.6	122.3
82.5°	67.5	104.1	87.6	67.5	54.8
85°	34.7	49.3	27.4	21.9	18.3
87.5°	11.0	7.3	3.7	3.7	1.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)