

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: P275789

Luminaire Tested: **14CZ2-20-RDP-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275789
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-43)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ2-20-RDP-UNV-L82765-W2A1-U-5000K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1374.0 lumens
Efficiency: N/A
Efficacy: 87.4 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.28 / 1.4
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

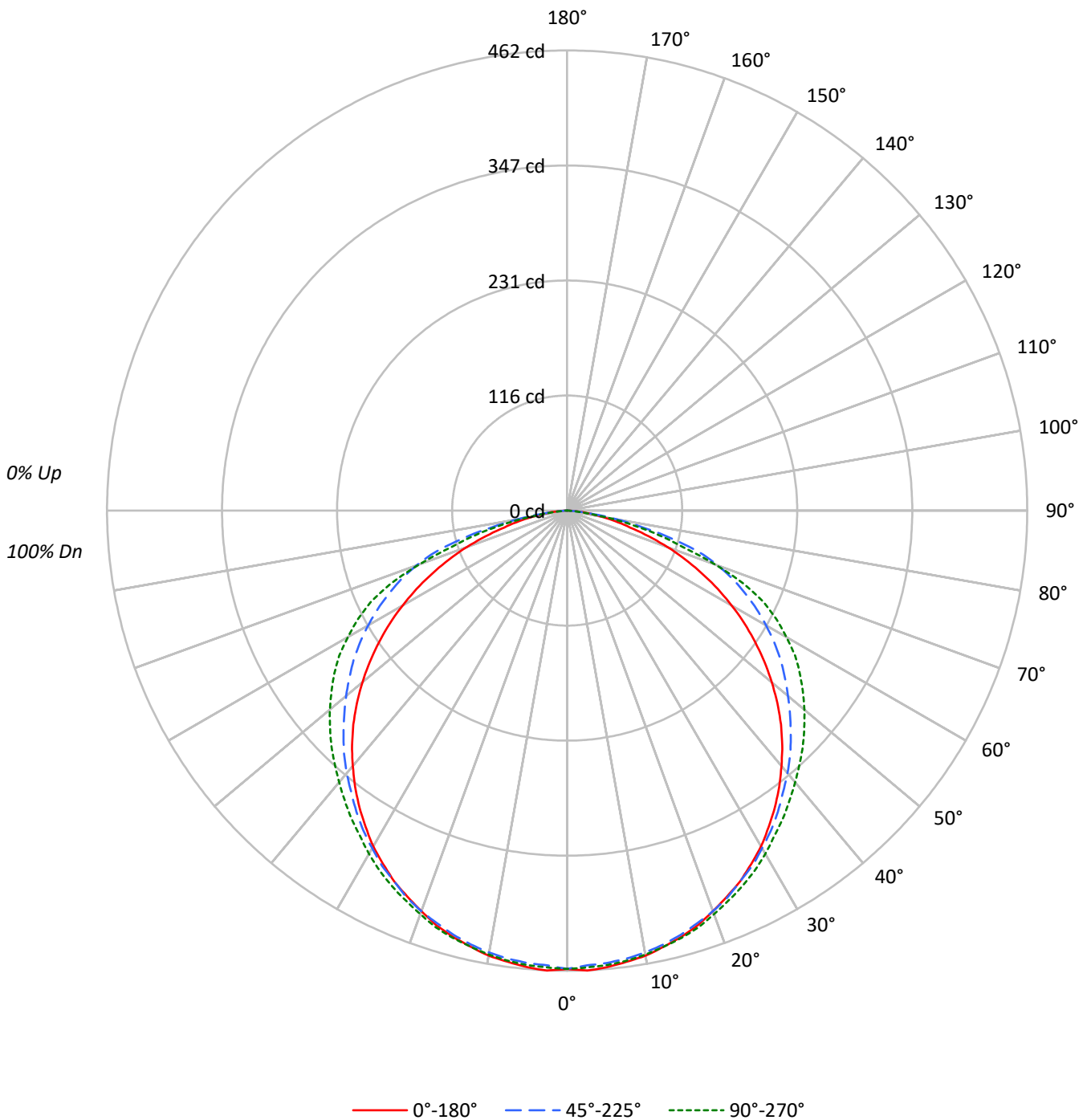
Input Watts (W): 15.717
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	93	91	88	90	88	86	84
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60	58
4	82	70	61	54	80	68	60	53	66	58	53	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	36	31	43	36	31	41	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	25	51	38	31	25	37	30	25	36	30	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1238	1238	1238
5°	1243	1232	1237
10°	1240	1231	1237
15°	1234	1228	1237
20°	1226	1226	1235
25°	1220	1220	1236
30°	1210	1216	1237
35°	1194	1212	1240
40°	1176	1209	1251
45°	1155	1208	1274
50°	1123	1212	1302
55°	1082	1228	1339
60°	1027	1241	1368
65°	949	1257	1387
70°	844	1266	1241
75°	680	1137	993
80°	532	798	648
85°	364	232	167



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.6	3.2
10°-20°	125.0	9.1
20°-30°	190.3	13.8
30°-40°	231.8	16.9
40°-50°	245.9	17.9
50°-60°	232.1	16.9
60°-70°	187.4	13.6
70°-80°	101.6	7.4
80°-90°	16.4	1.2
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°	358.8	26.1
0°-40°	590.6	43.0
0°-60°	1068.5	77.8
0°-90°	1374.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1374.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	460	460	460	460	460	
5°	460	459	456	459	458	44
15°	443	442	441	444	444	125
25°	411	410	411	415	416	189
35°	364	366	369	376	378	227
45°	304	308	318	329	335	234
55°	231	240	262	279	285	206
65°	149	167	197	214	218	148
75°	65	96	109	99	96	71
85°	12	13	8	6	5	15
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	460.2	460.2	460.2	460.2	460.2
2.5°	462.3	460.2	457.0	460.2	459.1
5°	460.2	459.1	455.9	459.1	458.0
7.5°	457.0	457.0	453.8	455.9	455.9
10°	453.8	452.7	450.5	453.8	452.7
12.5°	448.4	447.3	446.2	449.5	448.4
15°	443.0	442.0	440.9	444.1	444.1
17.5°	436.6	435.5	434.4	438.7	438.7
20°	428.0	428.0	428.0	432.3	431.2
22.5°	419.4	419.4	420.5	424.8	423.7
25°	410.8	409.8	410.8	415.1	416.2
27.5°	400.1	401.2	402.3	406.6	407.6
30°	389.4	390.5	391.5	396.9	398.0
32.5°	376.5	378.7	380.8	387.2	387.2
35°	363.6	365.8	369.0	376.5	377.6
37.5°	349.7	351.8	356.1	364.7	366.9
40°	334.7	337.9	344.3	352.9	356.1
42.5°	319.7	324.0	331.5	341.1	345.4
45°	303.6	307.9	317.5	329.3	334.7
47.5°	286.4	291.8	303.6	318.6	322.9
50°	268.2	275.7	289.6	305.7	311.1
52.5°	249.9	258.5	275.7	292.8	298.2
55°	230.6	240.3	261.7	278.9	285.3
57.5°	211.3	222.0	246.7	265.0	271.4
60°	190.9	203.8	230.6	248.9	254.2
62.5°	170.6	185.6	214.5	232.8	237.1
65°	149.1	167.3	197.4	213.5	217.8
67.5°	128.7	150.2	180.2	192.0	192.0
70°	107.3	130.9	160.9	164.1	157.7
72.5°	85.8	112.6	139.5	127.7	122.3
75°	65.4	95.5	109.4	98.7	95.5
77.5°	49.3	77.2	77.2	70.8	68.7
80°	34.3	59.0	51.5	45.1	41.8
82.5°	22.5	33.3	26.8	21.5	18.2
85°	11.8	12.9	7.5	6.4	5.4
87.5°	4.3	2.1	1.1	2.1	1.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)