

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: P259173

Luminaire Tested: **14CZ-LD5-29-SQP-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259173
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35908)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ-LD5-29-SQP-UNV-L92765-W2A1-U-3000K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER
WITH SQP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1546.0 lumens
Efficiency: N/A
Efficacy: 70.4 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.28 / 1.4
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

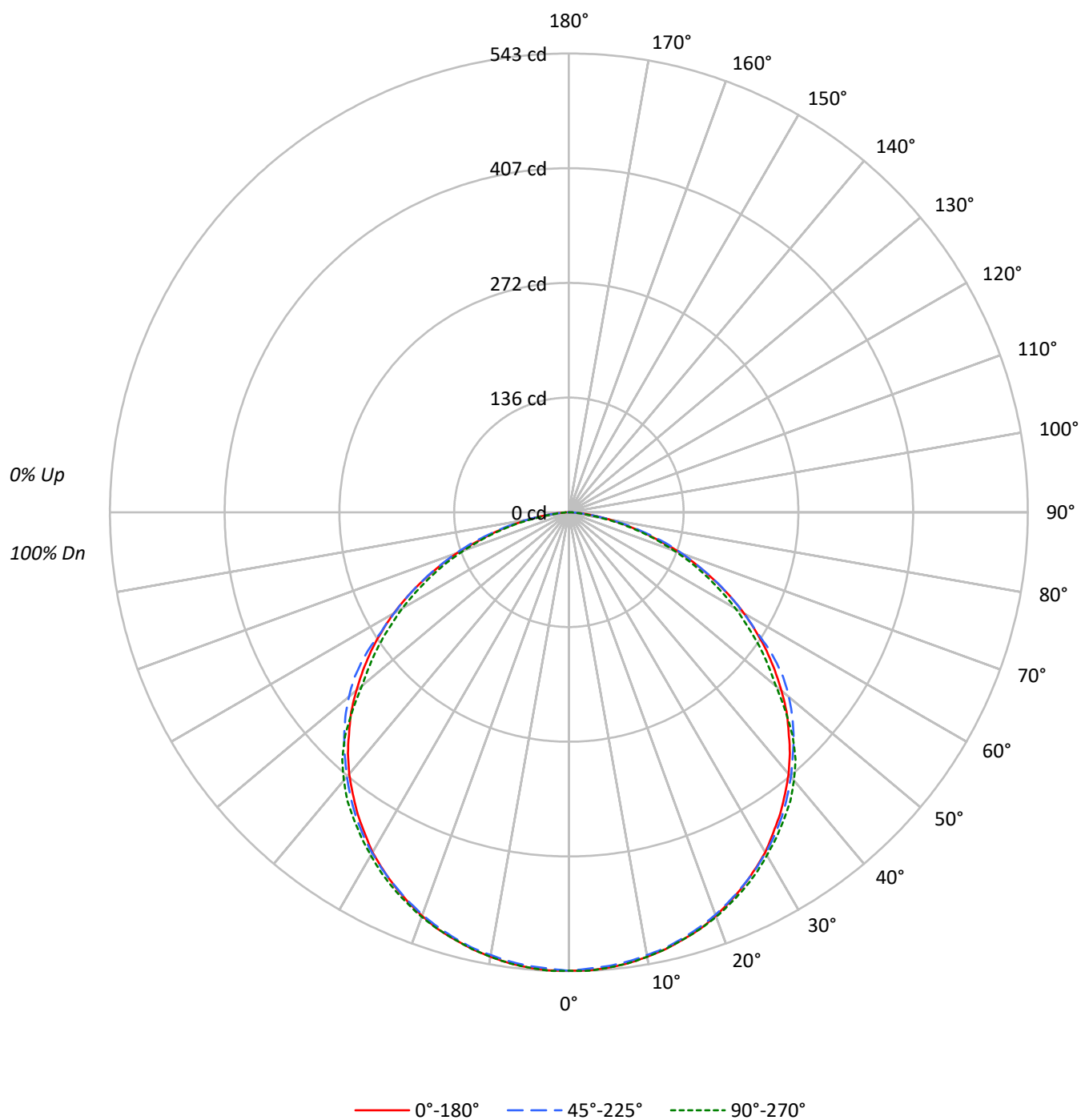
Input Watts (W): 21.948
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
RW	70	50	30	10	70	50	30	10		50	30	10		50	30	10		50	30	10
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	109	104	100	96	106	102	98	95		98	95	92		94	91	89		90	88	86
2	99	91	84	79	97	89	83	78		86	80	76		82	78	74		79	76	73
3	90	80	72	65	88	78	71	65		75	69	64		73	67	63		70	65	62
4	83	71	62	55	81	70	61	55		67	60	54		65	59	54		63	57	53
5	76	63	54	48	74	62	54	47		60	53	47		58	52	46		56	50	46
6	70	57	48	42	68	56	48	41		54	47	41		52	46	41		51	45	40
7	65	52	43	37	63	51	42	37		49	42	36		48	41	36		46	40	36
8	61	47	39	33	59	46	38	33		45	38	32		44	37	32		43	37	32
9	57	43	35	29	55	43	35	29		41	34	29		40	34	29		39	33	29
10	53	40	32	27	52	39	32	27		38	31	26		37	31	26		36	30	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1460	1460	1460
5°	1461	1456	1461
10°	1459	1454	1459
15°	1457	1453	1457
20°	1455	1452	1459
25°	1449	1447	1458
30°	1443	1446	1456
35°	1431	1443	1457
40°	1420	1435	1455
45°	1399	1431	1425
50°	1374	1423	1337
55°	1339	1378	1287
60°	1288	1285	1226
65°	1207	1214	1147
70°	1109	1120	1039
75°	931	974	888
80°	739	755	625
85°	485	420	355



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.4	3.3
10°-20°	147.7	9.6
20°-30°	225.5	14.6
30°-40°	275.1	17.8
40°-50°	287.7	18.6
50°-60°	254.7	16.5
60°-70°	187.6	12.1
70°-80°	97.1	6.3
80°-90°	19.3	1.3
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°	424.5	27.5
0°-40°	699.6	45.3
0°-60°	1242.0	80.3
0°-90°	1546.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1546.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	542	542	542	542	542	
5°	541	541	539	541	541	51
15°	523	523	522	524	523	148
25°	488	488	488	491	491	225
35°	436	437	439	444	444	273
45°	368	371	376	379	374	284
55°	285	291	294	279	274	255
65°	190	201	191	183	180	188
75°	90	96	94	88	85	96
85°	16	17	14	12	12	20
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	542.5	542.5	542.5	542.5	542.5
2.5°	542.5	542.5	540.4	542.5	543.0
5°	540.9	540.9	538.9	540.9	540.9
7.5°	538.3	537.8	536.2	538.3	538.3
10°	534.1	534.1	532.0	534.7	534.1
12.5°	529.4	528.9	527.9	530.0	529.4
15°	523.1	523.1	521.6	523.7	523.1
17.5°	516.9	516.3	514.8	516.9	516.9
20°	508.0	507.4	506.9	509.0	509.5
22.5°	498.5	498.0	497.5	500.6	500.6
25°	488.1	488.1	487.5	490.7	491.2
27.5°	476.5	476.5	477.1	481.2	480.7
30°	464.5	464.5	465.5	468.7	468.7
32.5°	449.8	450.9	453.0	456.6	456.6
35°	435.7	436.7	439.4	443.5	443.5
37.5°	420.0	421.6	424.2	429.4	430.5
40°	404.3	405.3	408.5	414.2	414.2
42.5°	387.0	388.0	392.2	398.0	396.9
45°	367.6	370.8	376.0	379.1	374.4
47.5°	349.3	351.4	358.7	355.0	347.2
50°	328.3	332.5	339.9	326.8	319.4
52.5°	306.9	311.6	319.4	301.1	296.9
55°	285.4	291.2	293.8	278.6	274.4
57.5°	262.4	268.6	263.4	254.5	250.3
60°	239.3	246.6	238.8	230.4	227.8
62.5°	215.2	223.6	214.7	207.4	203.7
65°	189.6	201.1	190.6	183.3	180.1
67.5°	164.4	176.5	165.5	159.2	157.1
70°	140.9	147.7	142.4	136.2	132.0
72.5°	112.6	119.4	118.3	111.5	108.9
75°	89.5	95.8	93.7	88.0	85.4
77.5°	66.5	73.3	71.2	64.4	63.4
80°	47.7	52.4	48.7	42.4	40.3
82.5°	29.8	33.5	28.8	24.1	23.0
85°	15.7	16.8	13.6	12.0	11.5
87.5°	5.2	5.8	5.8	5.2	5.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)