

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: P277602

Luminaire Tested: **22CZ2-20HE-RDP-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277602
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-24)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ2-20HE-RDP-UNV-L92765-W2A1-U-2700K
Description: CRUZE 2.0 2x2 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1056.0 lumens
Efficiency: N/A
Efficacy: 68.0 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.3 / 1.41
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

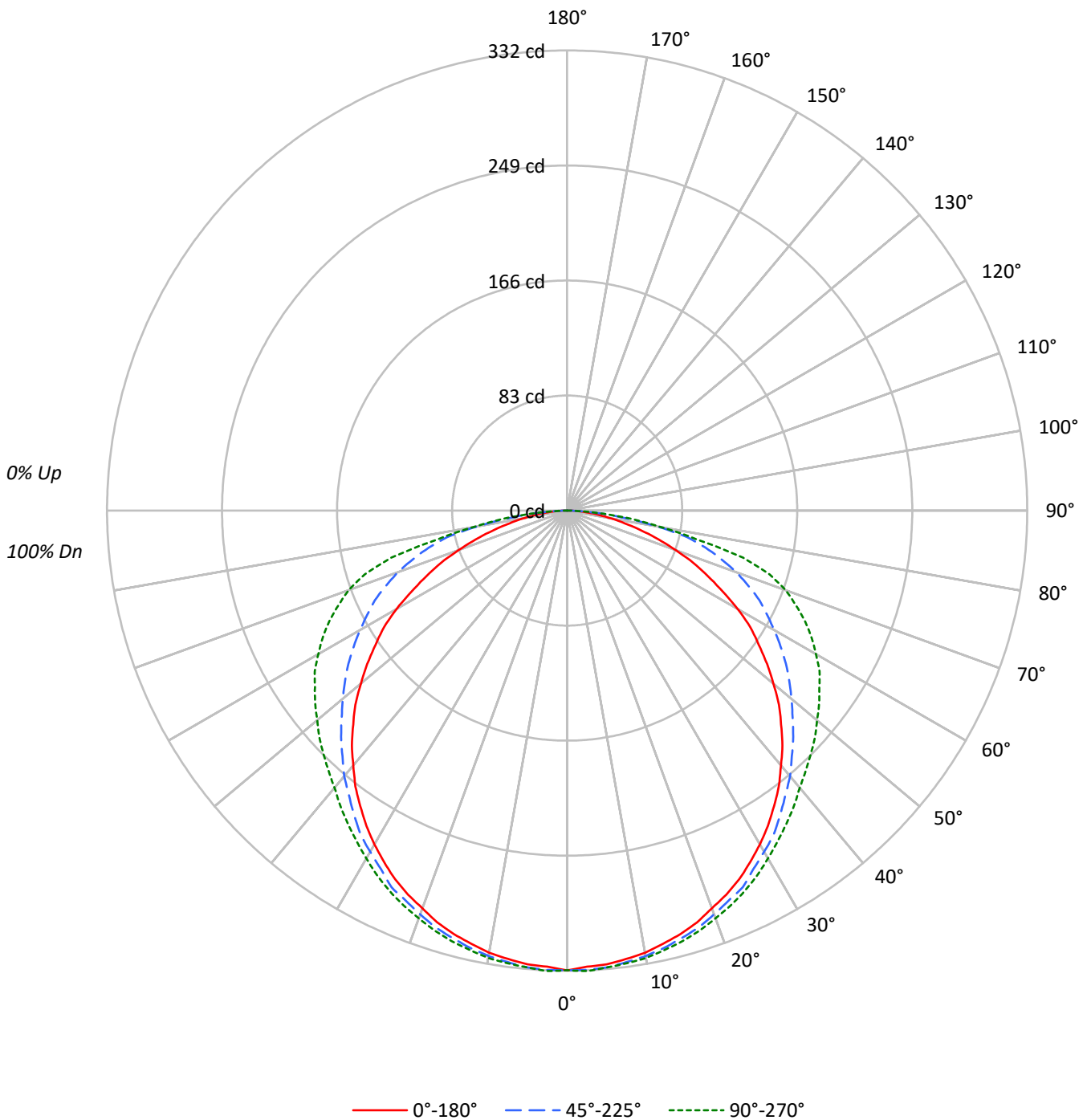
Input Watts (W): 15.531
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	103	98	94	105	100	96	92	96	92	89	92	89	86	88	86	84	82
2	97	88	81	75	95	86	80	74	83	77	72	80	75	71	76	72	69	67
3	88	77	68	61	86	75	67	61	72	65	60	70	64	59	67	62	58	55
4	80	68	59	51	78	66	58	51	64	56	50	61	55	50	59	54	49	47
5	74	60	51	44	72	59	50	44	57	49	43	55	48	43	53	47	42	40
6	68	54	45	38	66	53	44	38	51	43	38	50	43	37	48	42	37	35
7	63	49	40	33	61	48	39	33	47	39	33	45	38	33	44	37	33	31
8	59	45	36	30	57	44	35	30	43	35	29	41	34	29	40	34	29	27
9	55	41	32	27	53	40	32	27	39	32	26	38	31	26	37	31	26	24
10	51	38	30	24	50	37	29	24	36	29	24	35	29	24	34	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	893	893	893
5°	888	894	894
10°	885	892	896
15°	881	890	896
20°	874	888	897
25°	872	890	900
30°	864	883	900
35°	855	880	906
40°	843	879	917
45°	831	878	946
50°	813	885	985
55°	791	904	1042
60°	765	928	1116
65°	713	974	1207
70°	654	1020	1320
75°	574	1074	1365
80°	494	1023	1071
85°	432	744	815



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	31.4	3.0
10°-20°	90.1	8.5
20°-30°	137.4	13.0
30°-40°	167.8	15.9
40°-50°	179.4	17.0
50°-60°	173.2	16.4
60°-70°	149.1	14.1
70°-80°	100.9	9.6
80°-90°	26.6	2.5
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°	258.9	24.5
0°-40°	426.7	40.4
0°-60°	779.4	73.8
0°-90°	1056.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1056.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	332	332	332	332	332	
5°	329	329	331	331	331	31
15°	316	317	319	321	322	89
25°	294	295	300	301	303	135
35°	260	263	268	273	276	163
45°	218	222	231	242	249	168
55°	169	174	193	212	222	151
65°	112	123	153	177	190	111
75°	55	73	103	124	131	59
85°	14	19	24	25	26	16
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	331.7	331.7	331.7	331.7	331.7
2.5°	329.4	330.2	331.7	331.7	332.5
5°	328.6	329.4	330.9	330.9	330.9
7.5°	326.3	327.0	328.6	329.4	329.4
10°	323.9	324.7	326.3	327.0	327.8
12.5°	320.1	320.8	323.2	324.7	324.7
15°	316.2	316.9	319.3	320.8	321.6
17.5°	311.5	313.1	315.4	316.9	317.7
20°	305.3	306.8	310.0	312.3	313.1
22.5°	299.9	301.4	304.5	306.8	308.4
25°	293.6	295.2	299.9	301.4	303.0
27.5°	285.9	287.4	291.3	294.4	296.8
30°	278.1	279.7	284.3	288.2	289.8
32.5°	269.6	271.9	277.3	280.4	282.8
35°	260.2	262.6	268.0	273.4	275.8
37.5°	250.9	253.2	258.7	265.7	268.8
40°	240.0	243.1	250.1	259.5	261.0
42.5°	229.9	233.8	240.0	250.9	254.8
45°	218.3	222.2	230.7	242.4	248.6
47.5°	207.4	211.3	220.6	234.6	242.4
50°	194.2	199.6	211.3	227.6	235.4
52.5°	181.8	186.4	202.0	219.8	229.2
55°	168.6	174.0	192.7	212.1	222.2
57.5°	156.9	161.6	182.6	204.3	216.0
60°	142.2	148.4	172.5	195.8	207.4
62.5°	126.6	135.9	162.4	186.4	198.9
65°	111.9	122.7	153.0	177.1	189.5
67.5°	98.7	110.3	141.4	167.0	178.7
70°	83.1	97.9	129.7	154.6	167.8
72.5°	69.1	85.5	116.5	141.4	153.0
75°	55.2	73.0	103.3	124.3	131.3
77.5°	42.7	59.8	88.6	94.8	95.6
80°	31.9	47.4	66.0	66.8	69.1
82.5°	21.8	33.4	42.7	46.6	47.4
85°	14.0	19.4	24.1	24.9	26.4
87.5°	6.2	7.0	8.5	7.8	7.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)