

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: P277491

Luminaire Tested: **22CZ2-20HE-RDP-UNV-L83050-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277491
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-L83050-W2A1-U-4500K
Description: CRUZE 2.0 2x2 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1428.0 lumens
Efficiency: N/A
Efficacy: 87.7 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

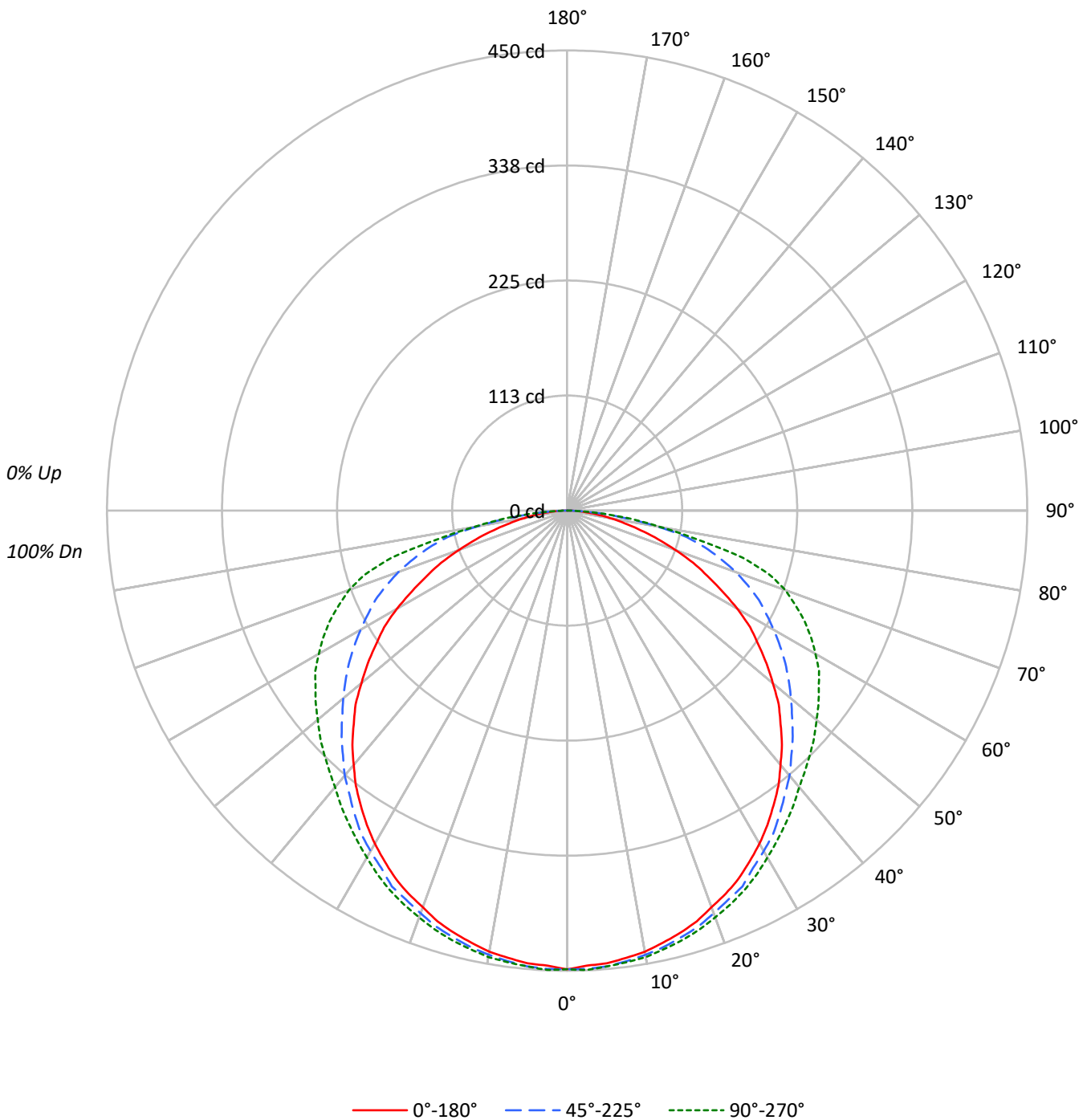
Input Watts (W): 16.275
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1207	1207	1207
5°	1200	1209	1209
10°	1197	1206	1211
15°	1191	1203	1212
20°	1182	1200	1212
25°	1179	1204	1216
30°	1169	1195	1217
35°	1156	1191	1225
40°	1140	1188	1240
45°	1123	1187	1279
50°	1099	1196	1333
55°	1070	1222	1409
60°	1034	1255	1510
65°	963	1317	1632
70°	884	1380	1785
75°	776	1452	1845
80°	668	1384	1449
85°	584	1007	1102



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.4	3.0
10°-20°	121.8	8.5
20°-30°	185.9	13.0
30°-40°	227.0	15.9
40°-50°	242.7	17.0
50°-60°	234.2	16.4
60°-70°	201.6	14.1
70°-80°	136.4	9.6
80°-90°	36.0	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°	350.1	24.5
0°-40°	577.1	40.4
0°-60°	1054.0	73.8
0°-90°	1428.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1428.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	449	449	449	449	449	
5°	444	445	448	448	448	42
15°	428	429	432	434	435	121
25°	397	399	406	408	410	183
35°	352	355	362	370	373	220
45°	295	300	312	328	336	228
55°	228	235	260	287	300	204
65°	151	166	207	240	256	150
75°	75	99	140	168	178	80
85°	19	26	33	34	36	21
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	448.6	448.6	448.6	448.6	448.6
2.5°	445.4	446.5	448.6	448.6	449.6
5°	444.4	445.4	447.5	447.5	447.5
7.5°	441.2	442.3	444.4	445.4	445.4
10°	438.1	439.1	441.2	442.3	443.3
12.5°	432.8	433.9	437.0	439.1	439.1
15°	427.5	428.6	431.8	433.9	434.9
17.5°	421.2	423.3	426.5	428.6	429.7
20°	412.8	414.9	419.1	422.3	423.3
22.5°	405.5	407.6	411.8	414.9	417.0
25°	397.1	399.2	405.5	407.6	409.7
27.5°	386.6	388.7	393.9	398.1	401.3
30°	376.1	378.2	384.5	389.7	391.8
32.5°	364.5	367.7	375.0	379.2	382.4
35°	351.9	355.1	362.4	369.8	372.9
37.5°	339.3	342.5	349.8	359.3	363.5
40°	324.6	328.8	338.3	350.9	353.0
42.5°	310.9	316.2	324.6	339.3	344.6
45°	295.2	300.4	312.0	327.8	336.2
47.5°	280.5	285.7	298.3	317.2	327.8
50°	262.6	270.0	285.7	307.8	318.3
52.5°	245.8	252.1	273.1	297.3	309.9
55°	228.0	235.3	260.5	286.8	300.4
57.5°	212.2	218.5	246.9	276.3	292.0
60°	192.2	200.6	233.2	264.7	280.5
62.5°	171.2	183.8	219.6	252.1	268.9
65°	151.3	166.0	206.9	239.5	256.3
67.5°	133.4	149.2	191.2	225.9	241.6
70°	112.4	132.4	175.4	209.0	226.9
72.5°	93.5	115.6	157.6	191.2	206.9
75°	74.6	98.7	139.7	168.1	177.5
77.5°	57.8	80.9	119.8	128.2	129.2
80°	43.1	64.1	89.3	90.3	93.5
82.5°	29.4	45.2	57.8	63.0	64.1
85°	18.9	26.3	32.6	33.6	35.7
87.5°	8.4	9.5	11.6	10.5	10.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)