

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: P277525

Luminaire Tested: **22CZ2-24HE-RDP-UNV-L93050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277525
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: 22CZ2-24HE-RDP-UNV-L93050-W2A1-U-4000K
Description: CRUZE 2.0 2x2 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1395.0 lumens
Efficiency: N/A
Efficacy: 77.4 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

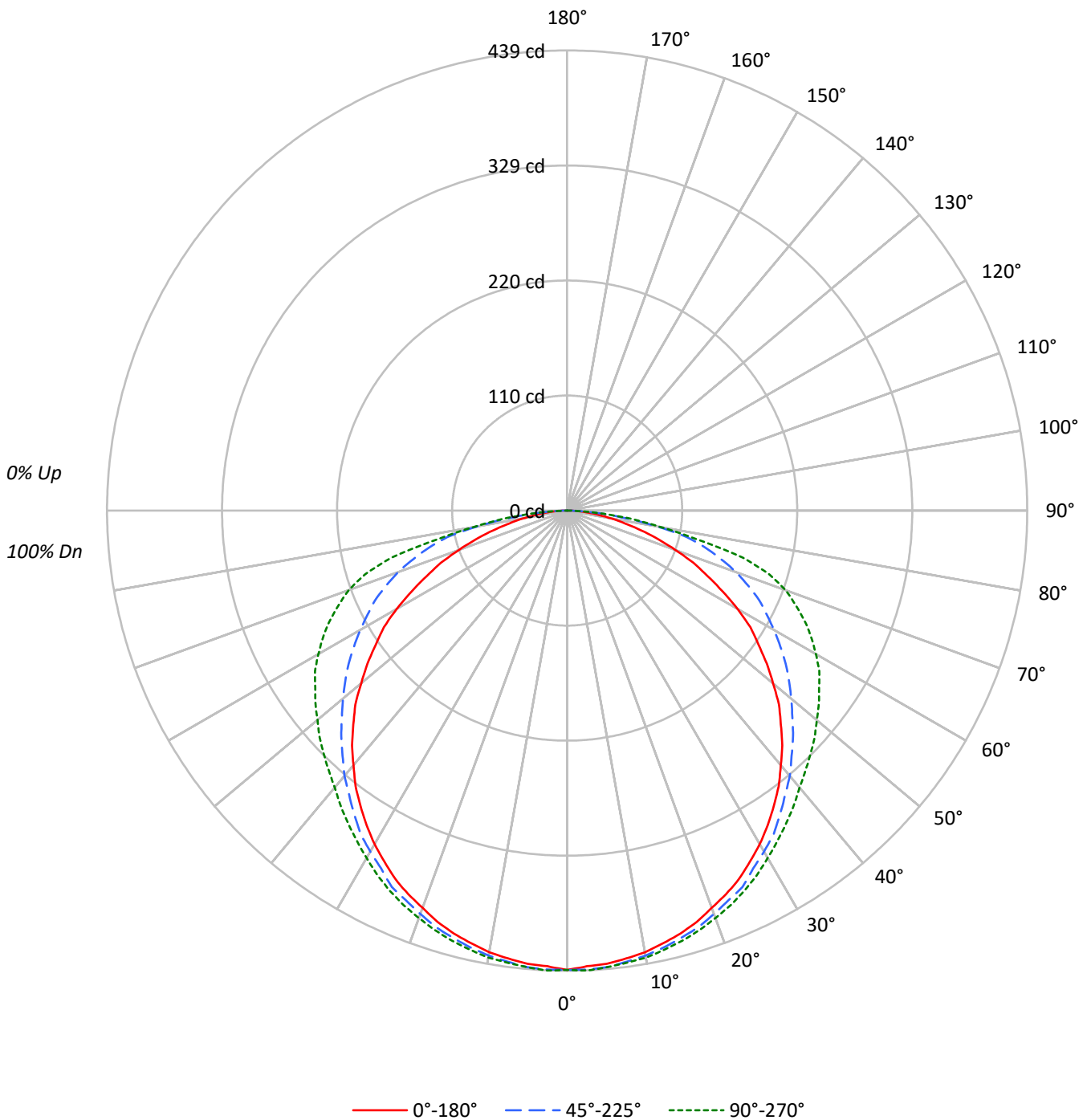
Input Watts (W): 18.034002
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1179	1179	1179
5°	1173	1181	1181
10°	1169	1178	1183
15°	1164	1175	1184
20°	1155	1173	1184
25°	1152	1176	1188
30°	1142	1167	1189
35°	1129	1163	1197
40°	1114	1161	1211
45°	1098	1160	1250
50°	1074	1168	1302
55°	1045	1194	1377
60°	1011	1226	1475
65°	941	1287	1594
70°	864	1349	1744
75°	758	1419	1803
80°	652	1351	1415
85°	571	982	1078



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	41.4	3.0
10°-20°	119.0	8.5
20°-30°	181.6	13.0
30°-40°	221.7	15.9
40°-50°	237.1	17.0
50°-60°	228.8	16.4
60°-70°	197.0	14.1
70°-80°	133.3	9.6
80°-90°	35.2	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°	342.0	24.5
0°-40°	563.7	40.4
0°-60°	1029.6	73.8
0°-90°	1395.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1395.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	438	438	438	438	438	
5°	434	435	437	437	437	41
15°	418	419	422	424	425	118
25°	388	390	396	398	400	179
35°	344	347	354	361	364	215
45°	288	294	305	320	328	223
55°	223	230	254	280	294	200
65°	148	162	202	234	250	147
75°	73	96	136	164	173	78
85°	18	26	32	33	35	21
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	438.2	438.2	438.2	438.2	438.2
2.5°	435.1	436.1	438.2	438.2	439.2
5°	434.1	435.1	437.2	437.2	437.2
7.5°	431.0	432.0	434.1	435.1	435.1
10°	427.9	429.0	431.0	432.0	433.1
12.5°	422.8	423.8	426.9	429.0	429.0
15°	417.7	418.7	421.8	423.8	424.9
17.5°	411.5	413.6	416.6	418.7	419.7
20°	403.3	405.4	409.5	412.5	413.6
22.5°	396.1	398.2	402.3	405.4	407.4
25°	387.9	390.0	396.1	398.2	400.2
27.5°	377.6	379.7	384.8	388.9	392.0
30°	367.4	369.4	375.6	380.7	382.8
32.5°	356.1	359.2	366.4	370.5	373.5
35°	343.8	346.9	354.0	361.2	364.3
37.5°	331.5	334.5	341.7	351.0	355.1
40°	317.1	321.2	330.4	342.8	344.8
42.5°	303.8	308.9	317.1	331.5	336.6
45°	288.4	293.5	304.8	320.2	328.4
47.5°	274.0	279.1	291.4	309.9	320.2
50°	256.6	263.7	279.1	300.7	310.9
52.5°	240.1	246.3	266.8	290.4	302.7
55°	222.7	229.9	254.5	280.2	293.5
57.5°	207.3	213.5	241.2	269.9	285.3
60°	187.8	196.0	227.8	258.6	274.0
62.5°	167.3	179.6	214.5	246.3	262.7
65°	147.8	162.1	202.2	234.0	250.4
67.5°	130.3	145.7	186.8	220.6	236.0
70°	109.8	129.3	171.4	204.2	221.7
72.5°	91.3	112.9	153.9	186.8	202.2
75°	72.9	96.5	136.5	164.2	173.4
77.5°	56.4	79.0	117.0	125.2	126.2
80°	42.1	62.6	87.2	88.3	91.3
82.5°	28.7	44.1	56.4	61.6	62.6
85°	18.5	25.7	31.8	32.8	34.9
87.5°	8.2	9.2	11.3	10.3	10.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)