

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: P277493

Luminaire Tested: **22CZ2-24HE-RDP-UNV-L83050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277493
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-L83050-W2A1-U-3000K
Description: CRUZE 2.0 2x2 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1437.0 lumens
Efficiency: N/A
Efficacy: 81.8 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

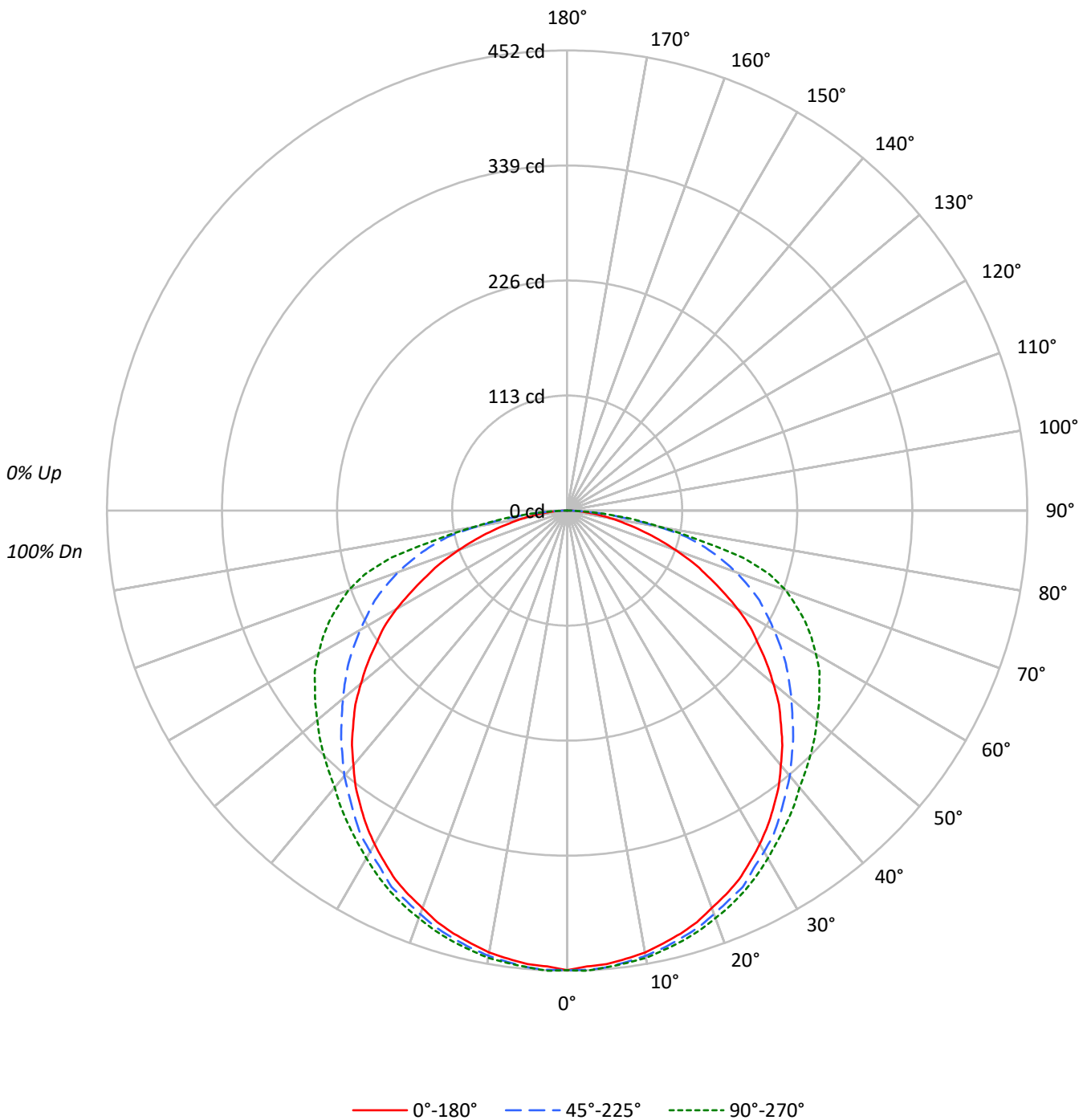
Input Watts (W): 17.577
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1215	1215	1215
5°	1208	1216	1216
10°	1204	1213	1219
15°	1198	1210	1219
20°	1190	1208	1220
25°	1186	1211	1224
30°	1176	1202	1225
35°	1163	1198	1233
40°	1147	1196	1248
45°	1130	1195	1287
50°	1106	1204	1341
55°	1076	1230	1418
60°	1041	1263	1519
65°	969	1326	1642
70°	890	1389	1796
75°	781	1462	1858
80°	671	1393	1458
85°	587	1013	1108



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.7	3.0
10°-20°	122.6	8.5
20°-30°	187.0	13.0
30°-40°	228.4	15.9
40°-50°	244.2	17.0
50°-60°	235.7	16.4
60°-70°	202.9	14.1
70°-80°	137.3	9.6
80°-90°	36.2	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°	352.3	24.5
0°-40°	580.7	40.4
0°-60°	1060.6	73.8
0°-90°	1437.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1437.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	451	451	451	451	451	
5°	447	448	450	450	450	42
15°	430	431	434	437	438	121
25°	400	402	408	410	412	184
35°	354	357	365	372	375	222
45°	297	302	314	330	338	229
55°	229	237	262	289	302	206
65°	152	167	208	241	258	151
75°	75	99	141	169	179	81
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°	451.4	451.4	451.4	451.4	451.4
2.5°	448.2	449.3	451.4	451.4	452.4
5°	447.2	448.2	450.3	450.3	450.3
7.5°	444.0	445.0	447.2	448.2	448.2
10°	440.8	441.9	444.0	445.0	446.1
12.5°	435.5	436.6	439.8	441.9	441.9
15°	430.2	431.3	434.5	436.6	437.6
17.5°	423.9	426.0	429.2	431.3	432.4
20°	415.4	417.6	421.8	425.0	426.0
22.5°	408.0	410.2	414.4	417.6	419.7
25°	399.6	401.7	408.0	410.2	412.3
27.5°	389.0	391.1	396.4	400.6	403.8
30°	378.4	380.6	386.9	392.2	394.3
32.5°	366.8	370.0	377.4	381.6	384.8
35°	354.1	357.3	364.7	372.1	375.3
37.5°	341.4	344.6	352.0	361.5	365.8
40°	326.6	330.9	340.4	353.1	355.2
42.5°	312.9	318.2	326.6	341.4	346.7
45°	297.0	302.3	314.0	329.8	338.3
47.5°	282.2	287.5	300.2	319.2	329.8
50°	264.3	271.7	287.5	309.7	320.3
52.5°	247.4	253.7	274.8	299.2	311.8
55°	229.4	236.8	262.2	288.6	302.3
57.5°	213.5	219.9	248.4	278.0	293.9
60°	193.5	201.9	234.7	266.4	282.2
62.5°	172.3	185.0	220.9	253.7	270.6
65°	152.2	167.0	208.3	241.0	257.9
67.5°	134.3	150.1	192.4	227.3	243.1
70°	113.1	133.2	176.5	210.4	228.3
72.5°	94.1	116.3	158.6	192.4	208.3
75°	75.1	99.4	140.6	169.1	178.7
77.5°	58.1	81.4	120.5	129.0	130.0
80°	43.3	64.5	89.9	90.9	94.1
82.5°	29.6	45.5	58.1	63.4	64.5
85°	19.0	26.4	32.8	33.8	35.9
87.5°	8.5	9.5	11.6	10.6	10.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)