

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: P277616

Luminaire Tested: **22CZ2-24HE-RDP-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277616
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-L92765-W2A1-U-5000K
Description: CRUZE 2.0 2x2 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1405.0 lumens
Efficiency: N/A
Efficacy: 78.3 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

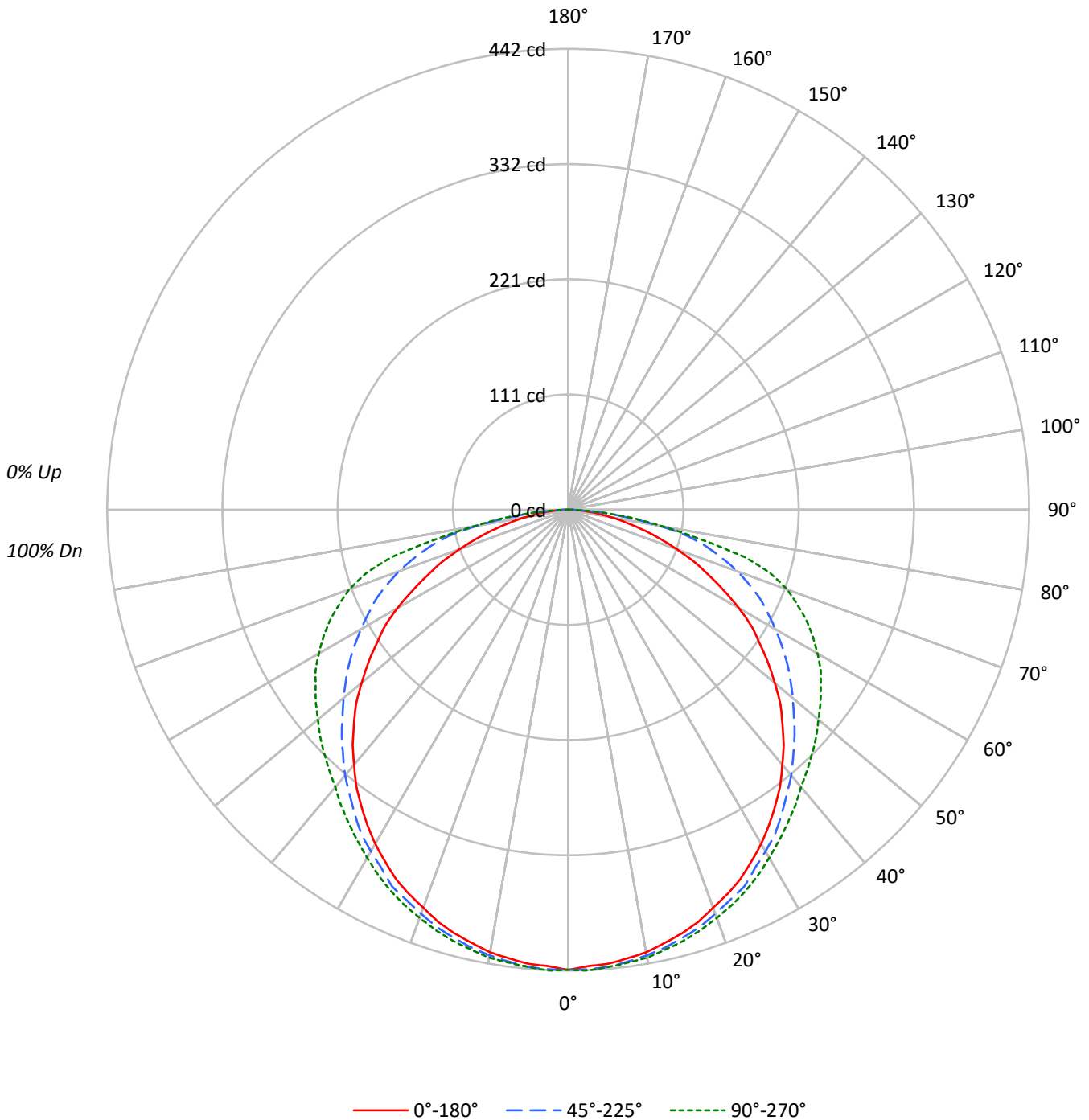
Input Watts (W): 17.949
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1188	1188	1188
5°	1181	1189	1189
10°	1178	1186	1192
15°	1172	1183	1192
20°	1163	1181	1193
25°	1160	1185	1197
30°	1150	1175	1198
35°	1137	1171	1205
40°	1122	1169	1220
45°	1105	1168	1259
50°	1082	1177	1311
55°	1052	1202	1387
60°	1018	1235	1485
65°	947	1296	1606
70°	870	1358	1757
75°	763	1430	1816
80°	657	1362	1426
85°	574	988	1084



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	41.7	3.0
10°-20°	119.9	8.5
20°-30°	182.9	13.0
30°-40°	223.3	15.9
40°-50°	238.7	17.0
50°-60°	230.5	16.4
60°-70°	198.4	14.1
70°-80°	134.2	9.6
80°-90°	35.4	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°	344.5	24.5
0°-40°	567.8	40.4
0°-60°	1037.0	73.8
0°-90°	1405.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1405.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	441	441	441	441	441	
5°	437	438	440	440	440	42
15°	421	422	425	427	428	119
25°	391	393	399	401	403	180
35°	346	349	357	364	367	217
45°	290	296	307	322	331	224
55°	224	232	256	282	296	201
65°	149	163	204	236	252	148
75°	73	97	138	165	175	79
85°	19	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°	441.3	441.3	441.3	441.3	441.3
2.5°	438.2	439.3	441.3	441.3	442.4
5°	437.2	438.2	440.3	440.3	440.3
7.5°	434.1	435.1	437.2	438.2	438.2
10°	431.0	432.0	434.1	435.1	436.2
12.5°	425.8	426.9	430.0	432.0	432.0
15°	420.7	421.7	424.8	426.9	427.9
17.5°	414.5	416.5	419.6	421.7	422.7
20°	406.2	408.3	412.4	415.5	416.5
22.5°	399.0	401.0	405.2	408.3	410.3
25°	390.7	392.8	399.0	401.0	403.1
27.5°	380.4	382.4	387.6	391.7	394.8
30°	370.0	372.1	378.3	383.5	385.5
32.5°	358.6	361.7	369.0	373.1	376.2
35°	346.2	349.3	356.6	363.8	366.9
37.5°	333.8	336.9	344.2	353.5	357.6
40°	319.4	323.5	332.8	345.2	347.3
42.5°	305.9	311.1	319.4	333.8	339.0
45°	290.4	295.6	307.0	322.5	330.7
47.5°	276.0	281.1	293.5	312.1	322.5
50°	258.4	265.6	281.1	302.8	313.2
52.5°	241.9	248.1	268.7	292.5	304.9
55°	224.3	231.5	256.3	282.2	295.6
57.5°	208.8	215.0	242.9	271.8	287.3
60°	189.1	197.4	229.5	260.5	276.0
62.5°	168.5	180.9	216.0	248.1	264.6
65°	148.8	163.3	203.6	235.7	252.2
67.5°	131.3	146.8	188.1	222.2	237.7
70°	110.6	130.2	172.6	205.7	223.3
72.5°	92.0	113.7	155.0	188.1	203.6
75°	73.4	97.2	137.5	165.4	174.7
77.5°	56.8	79.6	117.8	126.1	127.1
80°	42.4	63.0	87.9	88.9	92.0
82.5°	28.9	44.4	56.8	62.0	63.0
85°	18.6	25.8	32.0	33.1	35.1
87.5°	8.3	9.3	11.4	10.3	10.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)