

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: P277619

Luminaire Tested: **22CZ2-24HE-RDP-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277619
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-6500K
Description: CRUZE 2.0 2x2 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1443.0 lumens
Efficiency: N/A
Efficacy: 78.4 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

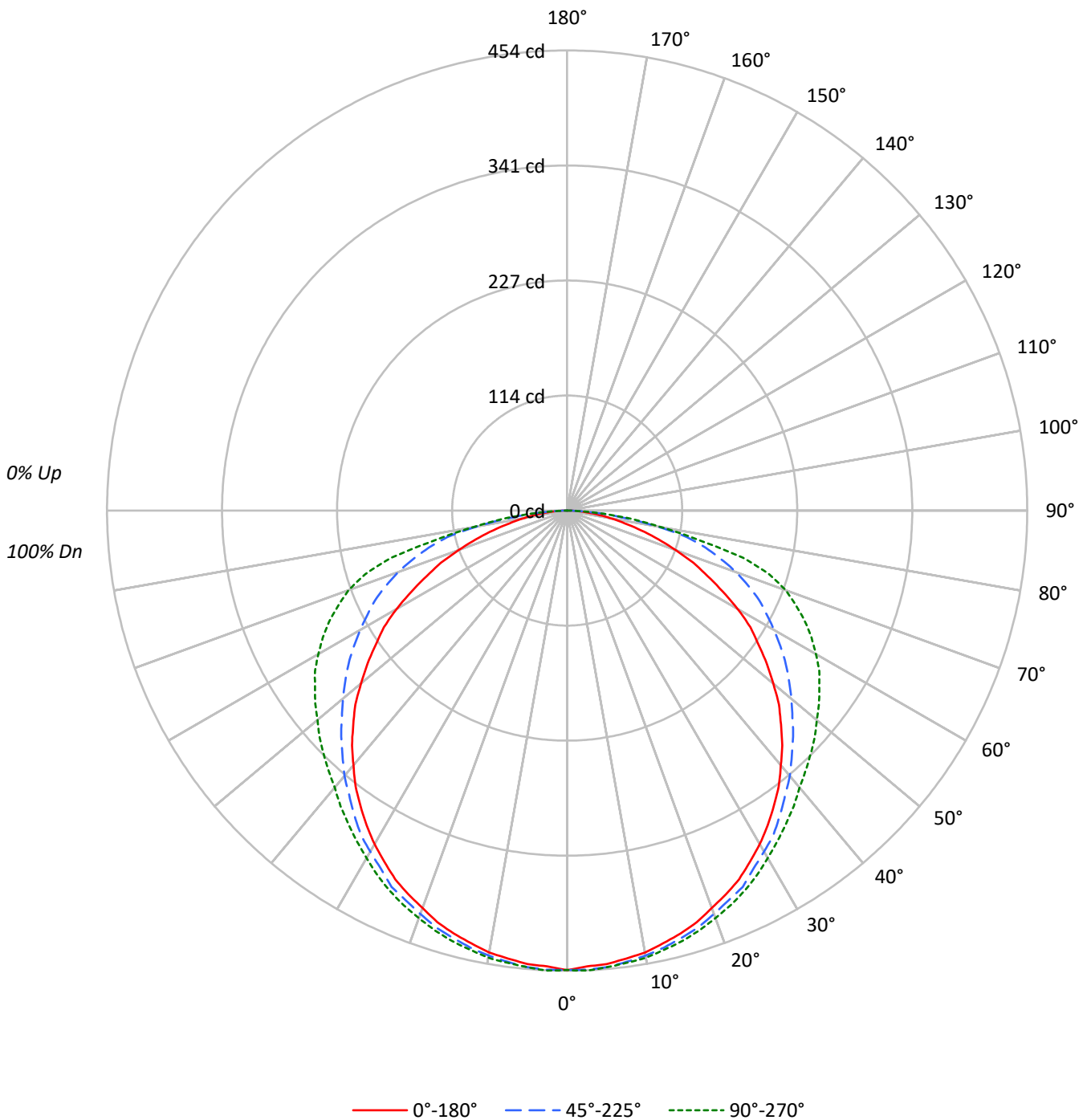
Input Watts (W): 18.414
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1220	1220	1220
5°	1213	1222	1222
10°	1210	1218	1224
15°	1204	1215	1224
20°	1195	1213	1225
25°	1192	1216	1229
30°	1181	1207	1230
35°	1168	1203	1238
40°	1152	1201	1253
45°	1135	1200	1293
50°	1111	1209	1346
55°	1081	1235	1424
60°	1046	1269	1525
65°	974	1331	1649
70°	894	1395	1804
75°	784	1468	1865
80°	674	1398	1464
85°	590	1016	1115



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.9	3.0
10°-20°	123.1	8.5
20°-30°	187.8	13.0
30°-40°	229.3	15.9
40°-50°	245.2	17.0
50°-60°	236.7	16.4
60°-70°	203.7	14.1
70°-80°	137.9	9.6
80°-90°	36.4	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°	353.8	24.5
0°-40°	583.1	40.4
0°-60°	1065.0	73.8
0°-90°	1443.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1443.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	453	453	453	453	453	
5°	449	450	452	452	452	43
15°	432	433	436	438	440	122
25°	401	403	410	412	414	185
35°	356	359	366	374	377	223
45°	298	304	315	331	340	230
55°	230	238	263	290	304	206
65°	153	168	209	242	259	152
75°	75	100	141	170	179	81
85°	19	26	33	34	36	22
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	453.3	453.3	453.3	453.3	453.3
2.5°	450.1	451.1	453.3	453.3	454.3
5°	449.0	450.1	452.2	452.2	452.2
7.5°	445.8	446.9	449.0	450.1	450.1
10°	442.7	443.7	445.8	446.9	448.0
12.5°	437.3	438.4	441.6	443.7	443.7
15°	432.0	433.1	436.3	438.4	439.5
17.5°	425.7	427.8	431.0	433.1	434.2
20°	417.2	419.3	423.5	426.7	427.8
22.5°	409.7	411.9	416.1	419.3	421.4
25°	401.3	403.4	409.7	411.9	414.0
27.5°	390.6	392.8	398.1	402.3	405.5
30°	380.0	382.1	388.5	393.8	395.9
32.5°	368.3	371.5	379.0	383.2	386.4
35°	355.6	358.8	366.2	373.7	376.8
37.5°	342.9	346.1	353.5	363.0	367.3
40°	328.0	332.3	341.8	354.5	356.7
42.5°	314.2	319.5	328.0	342.9	348.2
45°	298.3	303.6	315.3	331.2	339.7
47.5°	283.4	288.7	301.5	320.6	331.2
50°	265.4	272.8	288.7	311.0	321.6
52.5°	248.4	254.8	276.0	300.4	313.2
55°	230.4	237.8	263.3	289.8	303.6
57.5°	214.4	220.8	249.5	279.2	295.1
60°	194.3	202.8	235.7	267.5	283.4
62.5°	173.0	185.8	221.9	254.8	271.8
65°	152.9	167.7	209.1	242.0	259.0
67.5°	134.8	150.7	193.2	228.2	244.2
70°	113.6	133.8	177.3	211.2	229.3
72.5°	94.5	116.8	159.2	193.2	209.1
75°	75.4	99.8	141.2	169.8	179.4
77.5°	58.4	81.7	121.0	129.5	130.6
80°	43.5	64.8	90.2	91.3	94.5
82.5°	29.7	45.6	58.4	63.7	64.8
85°	19.1	26.5	32.9	34.0	36.1
87.5°	8.5	9.6	11.7	10.6	10.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)