

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: P277617

Luminaire Tested: **22CZ2-24HE-RDP-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277617
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-5500K
Description: CRUZE 2.0 2x2 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1427.0 lumens
Efficiency: N/A
Efficacy: 79.1 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

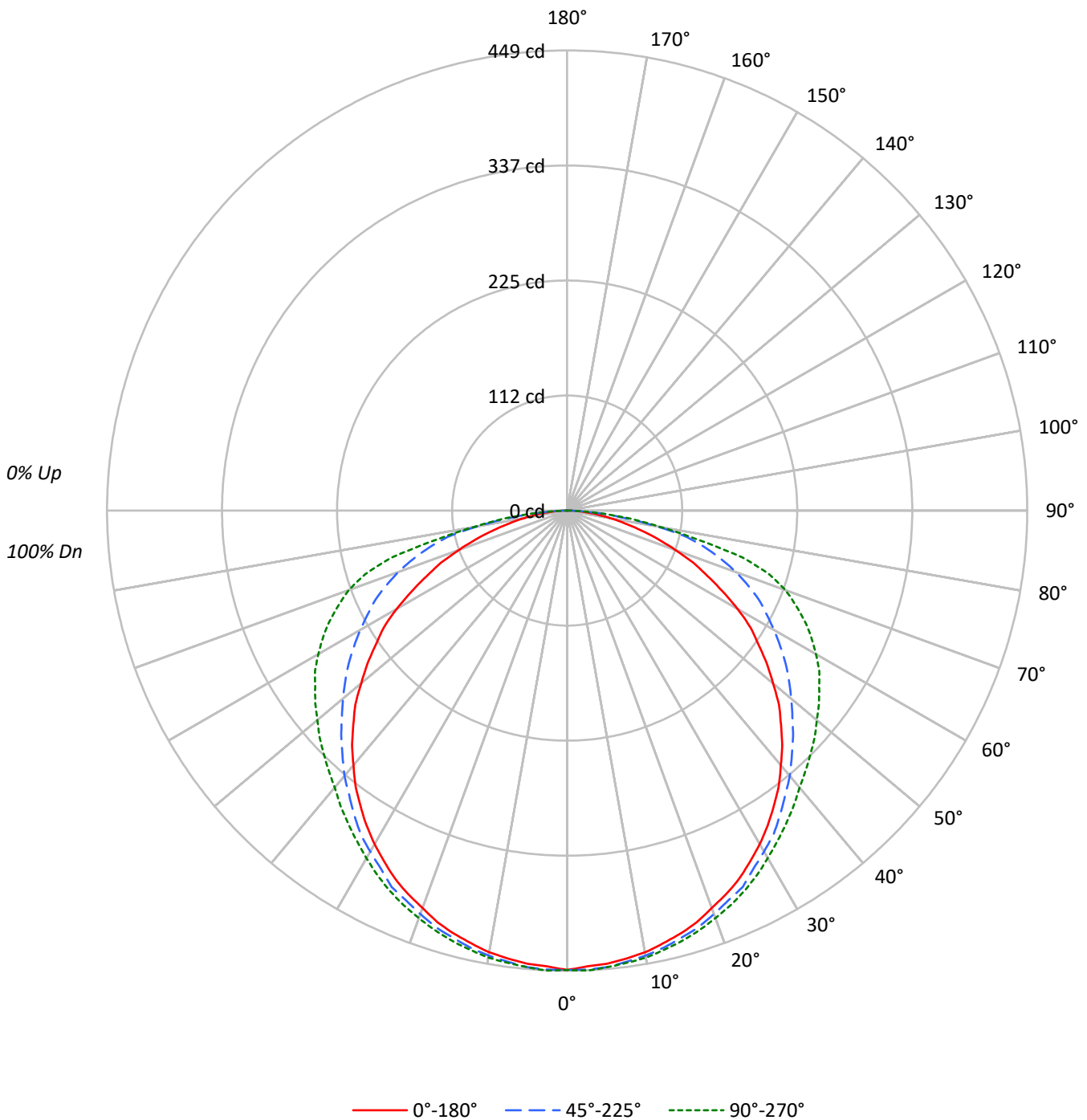
Input Watts (W): 18.042
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1206	1206	1206
5°	1199	1208	1208
10°	1196	1205	1210
15°	1190	1202	1211
20°	1182	1200	1212
25°	1178	1203	1216
30°	1168	1194	1217
35°	1155	1190	1224
40°	1140	1187	1239
45°	1123	1187	1278
50°	1099	1195	1332
55°	1069	1221	1408
60°	1034	1254	1509
65°	963	1317	1631
70°	884	1379	1784
75°	775	1451	1844
80°	666	1382	1447
85°	584	1003	1102



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.4	3.0
10°-20°	121.7	8.5
20°-30°	185.7	13.0
30°-40°	226.8	15.9
40°-50°	242.5	17.0
50°-60°	234.0	16.4
60°-70°	201.5	14.1
70°-80°	136.3	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°	349.9	24.5
0°-40°	576.7	40.4
0°-60°	1053.2	73.8
0°-90°	1427.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1427.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	448	448	448	448	448	
5°	444	445	447	447	447	42
15°	427	428	431	434	435	121
25°	397	399	405	407	409	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	239	256	150
75°	74	99	140	168	177	80
85°	19	26	32	34	36	21
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	448.2	448.2	448.2	448.2	448.2
2.5°	445.1	446.1	448.2	448.2	449.3
5°	444.0	445.1	447.2	447.2	447.2
7.5°	440.9	441.9	444.0	445.1	445.1
10°	437.7	438.8	440.9	441.9	443.0
12.5°	432.5	433.5	436.7	438.8	438.8
15°	427.3	428.3	431.4	433.5	434.6
17.5°	421.0	423.1	426.2	428.3	429.3
20°	412.6	414.7	418.9	422.0	423.1
22.5°	405.2	407.3	411.5	414.7	416.8
25°	396.8	398.9	405.2	407.3	409.4
27.5°	386.3	388.4	393.7	397.9	401.0
30°	375.8	377.9	384.2	389.5	391.6
32.5°	364.3	367.4	374.8	379.0	382.1
35°	351.7	354.8	362.2	369.5	372.7
37.5°	339.1	342.2	349.6	359.0	363.2
40°	324.4	328.6	338.0	350.6	352.7
42.5°	310.7	316.0	324.4	339.1	344.3
45°	295.0	300.2	311.8	327.5	335.9
47.5°	280.3	285.5	298.1	317.0	327.5
50°	262.4	269.8	285.5	307.6	318.1
52.5°	245.6	251.9	272.9	297.1	309.7
55°	227.8	235.1	260.3	286.6	300.2
57.5°	212.1	218.3	246.7	276.1	291.8
60°	192.1	200.5	233.0	264.5	280.3
62.5°	171.1	183.7	219.4	251.9	268.7
65°	151.2	165.9	206.8	239.3	256.1
67.5°	133.3	149.1	191.1	225.7	241.4
70°	112.3	132.3	175.3	208.9	226.7
72.5°	93.4	115.5	157.5	191.1	206.8
75°	74.5	98.7	139.6	168.0	177.4
77.5°	57.7	80.8	119.7	128.1	129.1
80°	43.0	64.0	89.2	90.3	93.4
82.5°	29.4	45.1	57.7	63.0	64.0
85°	18.9	26.2	32.5	33.6	35.7
87.5°	8.4	9.4	11.5	10.5	10.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)