

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: P277315

Luminaire Tested: **22CZ2-44HE-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277315
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-27)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ2-44HE-UNV-L92765-W2A1-U-4500K
Description: CRUZE 2.0 2x2 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3731.0 lumens
Efficiency: N/A
Efficacy: 105.9 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.27 / 1.36
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

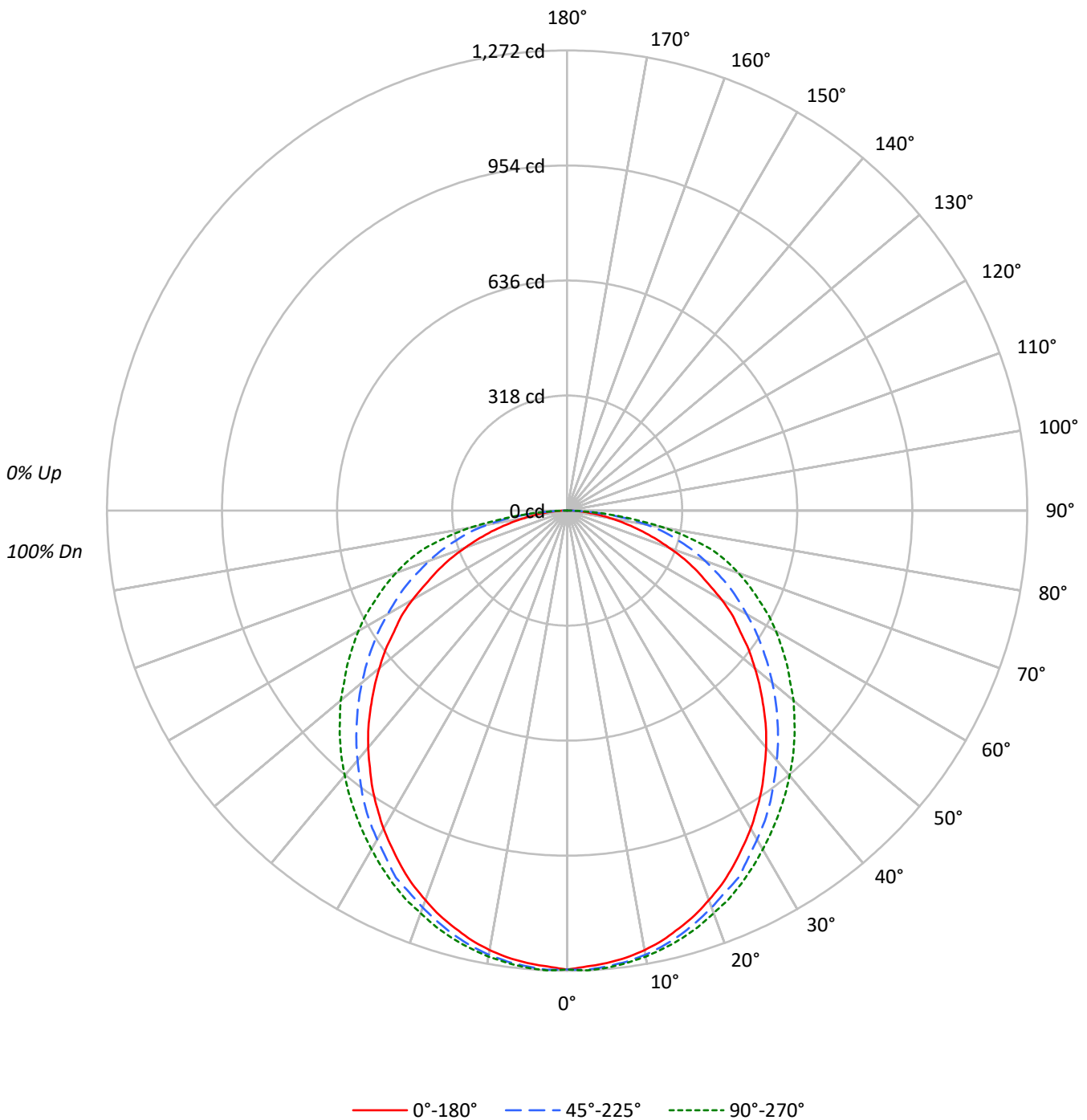
Input Watts (W): 35.247
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	108	103	98	94	105	101	96	93	96	93	90	92	90	87	89	86	84	82					82			
2	98	89	82	76	95	87	81	75	84	78	73	80	76	71	77	73	70	68					68			
3	89	78	69	63	86	76	68	62	73	66	61	70	65	60	68	63	59	56					56			
4	81	69	60	53	79	67	59	52	65	57	52	63	56	51	60	55	50	48					48			
5	75	61	52	45	72	60	52	45	58	50	44	56	49	44	54	48	44	41					41			
6	69	55	46	39	67	54	46	39	52	45	39	51	44	39	49	43	38	36					36			
7	64	50	41	35	62	49	41	35	48	40	34	46	39	34	45	39	34	32					32			
8	59	46	37	31	58	45	37	31	44	36	31	42	35	30	41	35	30	28					28			
9	56	42	34	28	54	41	33	28	40	33	28	39	32	27	38	32	27	25					25			
10	52	39	31	25	51	38	30	25	37	30	25	36	30	25	35	29	25	23					23			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3414	3414	3414
5°	3392	3417	3427
10°	3371	3406	3421
15°	3330	3381	3411
20°	3281	3344	3391
25°	3222	3325	3380
30°	3155	3263	3360
35°	3082	3221	3353
40°	3005	3166	3360
45°	2920	3130	3382
50°	2836	3098	3420
55°	2739	3084	3480
60°	2658	3083	3587
65°	2525	3133	3717
70°	2355	3192	3958
75°	2157	3302	4275
80°	1878	3442	4210
85°	1643	3060	3344



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.0	3.2
10°-20°	341.7	9.2
20°-30°	513.0	13.7
30°-40°	613.0	16.4
40°-50°	637.4	17.1
50°-60°	590.8	15.8
60°-70°	484.6	13.0
70°-80°	327.6	8.8
80°-90°	102.9	2.8
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°	974.7	26.1
0°-40°	1587.7	42.6
0°-60°	2815.9	75.5
0°-90°	3731.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3731.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1269	1269	1269	1269	1269	
5°	1256	1258	1265	1267	1269	119
15°	1195	1201	1214	1221	1224	337
25°	1085	1094	1120	1133	1138	500
35°	938	951	980	1010	1021	586
45°	767	782	822	870	889	593
55°	584	602	657	716	742	525
65°	397	419	492	556	584	392
75°	208	242	318	382	411	220
85°	53	73	99	110	108	60
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1268.6	1268.6	1268.6	1268.6	1268.6
2.5°	1261.3	1264.9	1270.4	1272.3	1272.3
5°	1255.8	1257.6	1264.9	1266.8	1268.6
7.5°	1246.6	1250.2	1257.6	1259.4	1261.3
10°	1233.7	1237.4	1246.6	1250.2	1252.1
12.5°	1217.2	1220.9	1231.9	1237.4	1239.2
15°	1195.2	1200.7	1213.5	1220.9	1224.5
17.5°	1173.1	1178.6	1191.5	1202.5	1206.2
20°	1145.6	1158.5	1167.6	1182.3	1184.2
22.5°	1118.1	1125.4	1141.9	1156.6	1164.0
25°	1085.0	1094.2	1119.9	1132.8	1138.3
27.5°	1050.1	1063.0	1083.2	1103.4	1110.7
30°	1015.3	1024.4	1050.1	1074.0	1081.3
32.5°	976.7	989.6	1017.1	1041.0	1052.0
35°	938.1	951.0	980.4	1009.7	1020.8
37.5°	895.9	910.6	940.0	974.9	989.6
40°	855.5	866.5	901.4	943.7	956.5
42.5°	813.3	826.2	862.9	908.8	923.5
45°	767.4	782.1	822.5	870.2	888.6
47.5°	723.3	738.0	782.1	829.8	851.9
50°	677.4	695.8	739.9	794.9	817.0
52.5°	633.4	649.9	699.5	756.4	776.6
55°	583.8	602.2	657.3	716.0	741.7
57.5°	543.4	556.3	616.9	677.4	703.2
60°	493.9	510.4	572.8	637.1	666.4
62.5°	440.6	468.2	532.4	598.5	627.9
65°	396.6	418.6	492.0	556.3	583.8
67.5°	350.7	374.5	446.1	514.1	545.3
70°	299.3	330.5	405.7	473.7	503.0
72.5°	253.4	286.4	363.5	429.6	460.8
75°	207.5	242.3	317.6	381.9	411.2
77.5°	163.4	201.9	275.4	325.0	343.3
80°	121.2	157.9	222.1	257.0	271.7
82.5°	84.5	115.7	163.4	181.8	185.4
85°	53.2	73.4	99.1	110.2	108.3
87.5°	23.9	29.4	36.7	40.4	38.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)