

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: P277426

Luminaire Tested: **22CZ2-44HE-S-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277426
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-23)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ2-44HE-S-UNV-L82765-W2A1-U-3000K
Description: CRUZE 2.0 2x2 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4100.0 lumens
Efficiency: N/A
Efficacy: 119.5 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.26 / 1.34
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

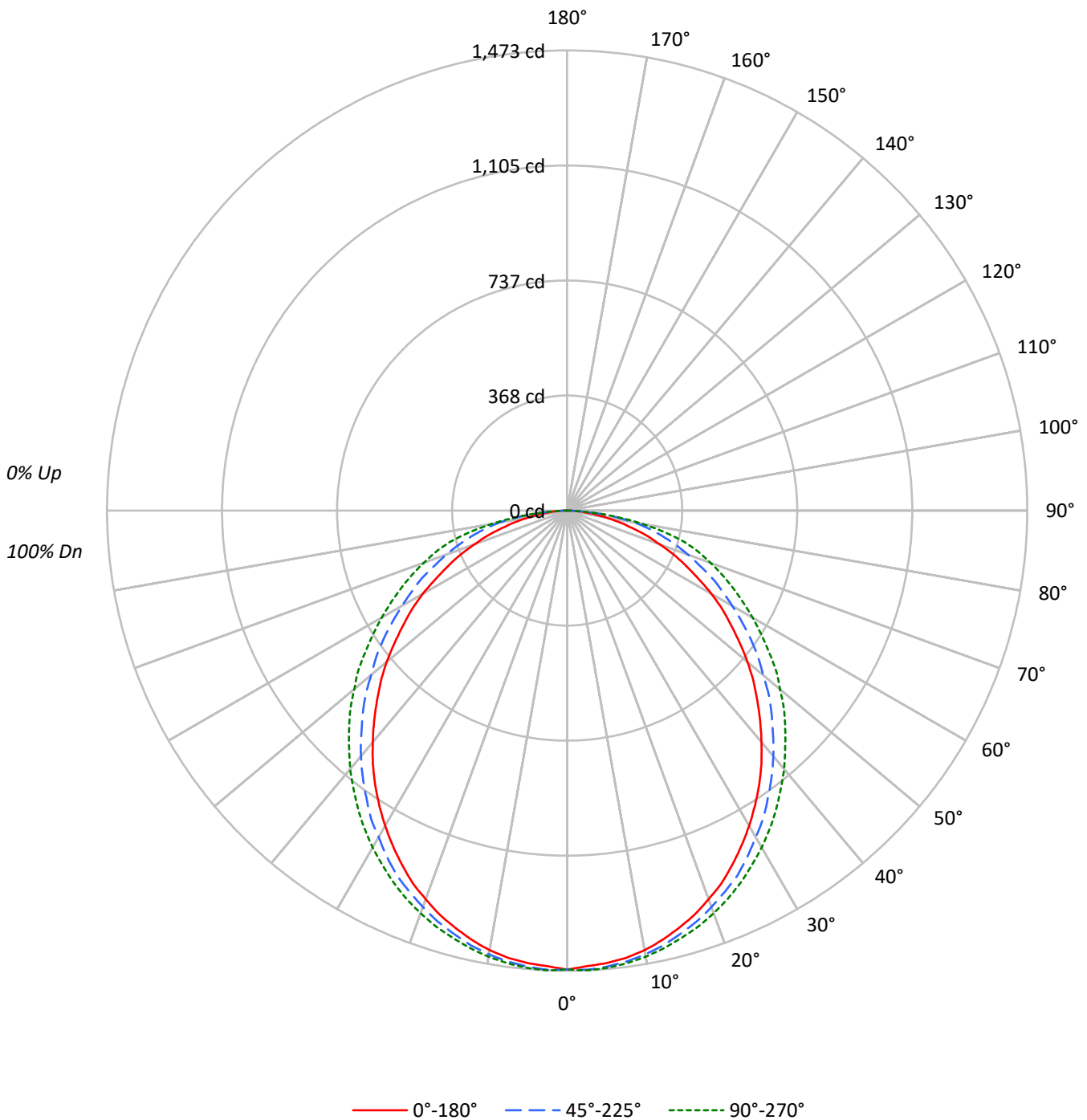
Input Watts (W): 34.317
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83					83			
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69					69			
3	90	79	71	64	87	77	70	63	74	68	62	72	66	61	69	64	60	58					58			
4	82	70	61	54	80	69	60	54	66	59	53	64	57	52	61	56	52	49					49			
5	75	62	53	47	73	61	53	46	59	52	46	57	51	45	55	50	45	43					43			
6	70	56	47	41	68	55	47	41	53	46	40	52	45	40	50	44	39	37					37			
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35	33					33			
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	31	30					30			
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	28	27					27			
10	53	40	32	26	51	39	31	26	38	31	26	37	31	26	36	30	26	24					24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3954	3954	3954
5°	3927	3958	3969
10°	3905	3941	3962
15°	3853	3906	3944
20°	3791	3868	3928
25°	3715	3828	3902
30°	3620	3751	3869
35°	3519	3683	3833
40°	3400	3609	3797
45°	3276	3524	3757
50°	3155	3427	3724
55°	3006	3366	3697
60°	2872	3284	3686
65°	2680	3265	3727
70°	2468	3236	3838
75°	2228	3281	4037
80°	1926	3380	3795
85°	1596	2834	2834



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.9	3.4
10°-20°	395.4	9.6
20°-30°	591.6	14.4
30°-40°	700.6	17.1
40°-50°	714.0	17.4
50°-60°	639.9	15.6
60°-70°	501.0	12.2
70°-80°	323.1	7.9
80°-90°	95.4	2.3
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°	1125.9	27.5
0°-40°	1826.5	44.5
0°-60°	3180.5	77.6
0°-90°	4100.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4100.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1469	1469	1469	1469	1469	
5°	1454	1458	1465	1467	1469	138
15°	1383	1391	1402	1414	1416	390
25°	1251	1263	1289	1307	1314	576
35°	1071	1085	1121	1155	1167	670
45°	861	880	926	974	987	665
55°	641	662	717	767	788	575
65°	421	446	513	562	585	418
75°	214	247	316	369	388	230
85°	52	71	92	92	92	61
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1469.2	1469.2	1469.2	1469.2	1469.2
2.5°	1459.6	1463.4	1471.1	1473.0	1473.0
5°	1453.9	1457.7	1465.3	1467.2	1469.2
7.5°	1444.3	1446.2	1455.8	1459.6	1461.5
10°	1429.0	1432.8	1442.4	1448.1	1450.0
12.5°	1407.9	1413.7	1425.2	1432.8	1434.7
15°	1383.1	1390.7	1402.2	1413.7	1415.6
17.5°	1356.3	1363.9	1379.2	1392.6	1396.5
20°	1323.8	1333.3	1350.6	1365.9	1371.6
22.5°	1291.3	1298.9	1319.9	1339.1	1344.8
25°	1251.1	1262.6	1289.3	1306.6	1314.2
27.5°	1209.0	1222.4	1249.2	1272.1	1279.8
30°	1165.0	1178.4	1207.1	1235.8	1245.3
32.5°	1119.1	1134.4	1168.8	1197.5	1207.1
35°	1071.3	1084.7	1121.0	1155.4	1166.9
37.5°	1021.5	1033.0	1075.1	1111.4	1122.9
40°	968.0	983.3	1027.3	1069.3	1080.8
42.5°	914.4	931.6	975.6	1021.5	1033.0
45°	860.8	880.0	925.9	973.7	987.1
47.5°	809.2	824.5	876.1	922.0	941.2
50°	753.7	769.0	818.7	870.4	889.5
52.5°	696.3	717.4	770.9	820.7	843.6
55°	640.8	661.9	717.4	767.1	788.1
57.5°	589.2	606.4	663.8	715.4	736.5
60°	533.7	549.0	610.2	665.7	684.8
62.5°	474.4	497.4	560.5	612.1	635.1
65°	420.9	445.7	512.7	562.4	585.4
67.5°	371.1	394.1	459.1	512.7	537.5
70°	313.7	344.3	411.3	464.9	487.8
72.5°	267.8	294.6	363.5	417.0	441.9
75°	214.3	246.8	315.6	369.2	388.3
77.5°	170.3	202.8	267.8	309.9	319.5
80°	124.3	156.9	218.1	239.1	244.9
82.5°	84.2	114.8	156.9	162.6	164.5
85°	51.7	70.8	91.8	91.8	91.8
87.5°	24.9	28.7	32.5	30.6	30.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)