

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: P276914

Luminaire Tested: **24CZ2-45HE-RDP-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276914
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1808-918-19)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ2-45HE-RDP-UNV-L82765-W2A1-U-5000K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (336) 80 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2938.2 lumens
Efficiency: N/A
Efficacy: 91.3 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.3 / 1.41
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

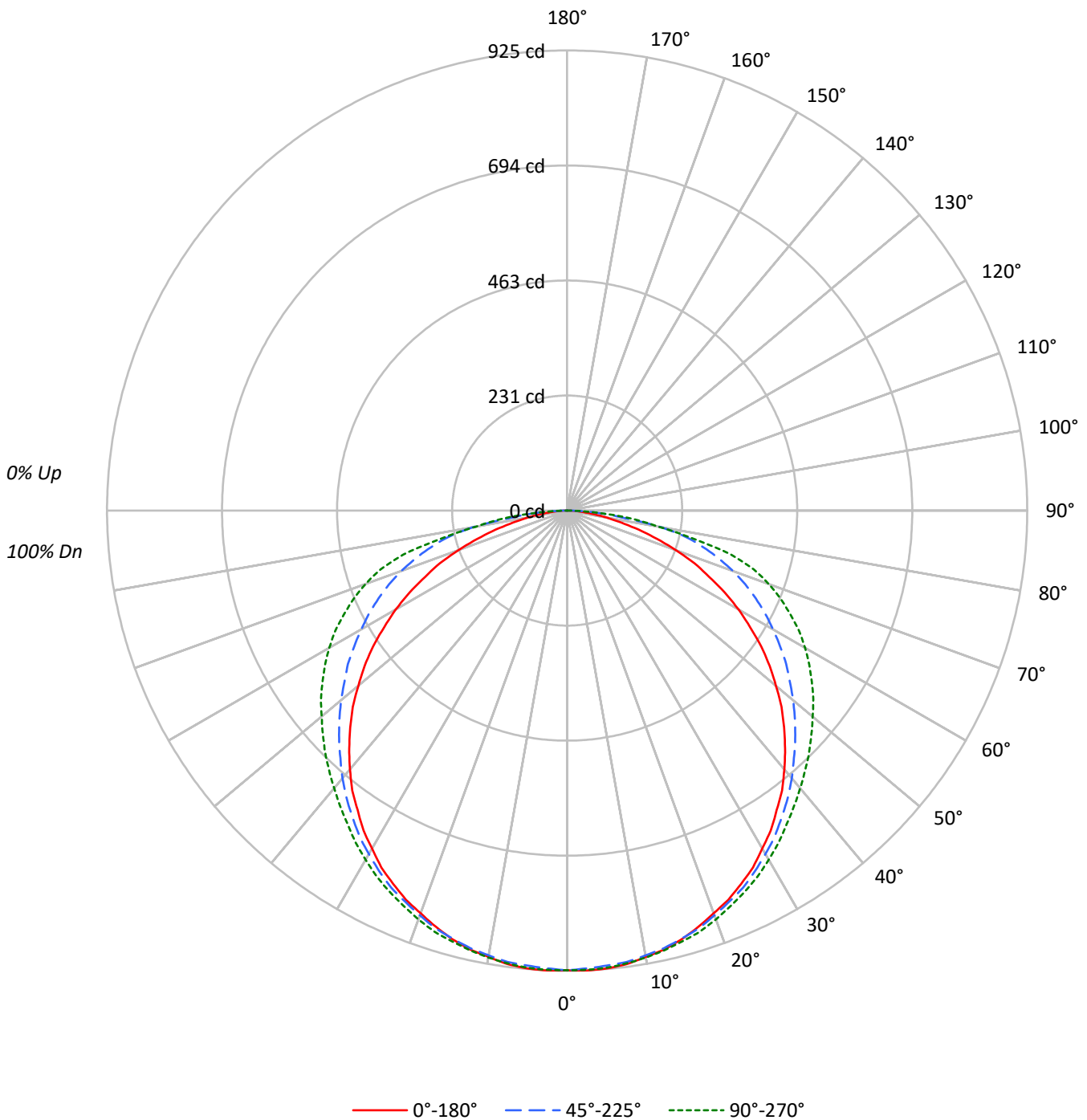
Input Watts (W): 32.178
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	93	89	92	89	87	88	86	84	82
2	97	89	81	75	95	87	80	74	83	77	72	80	75	71	77	73	69	67
3	88	77	68	62	86	76	67	61	72	66	60	70	64	59	67	62	58	56
4	81	68	59	52	78	67	58	51	64	57	51	62	55	50	59	54	49	47
5	74	60	51	44	72	59	51	44	57	49	43	55	48	43	53	47	42	40
6	68	54	45	38	66	53	45	38	51	44	38	50	43	37	48	42	37	35
7	63	49	40	34	61	48	40	34	47	39	33	45	38	33	44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30	41	34	29	40	34	29	27
9	55	41	33	27	53	40	32	27	39	32	27	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°	1243	1243	1243
5°	1248	1240	1246
10°	1245	1240	1246
15°	1242	1240	1249
20°	1233	1240	1252
25°	1229	1242	1255
30°	1218	1239	1259
35°	1206	1235	1264
40°	1193	1234	1280
45°	1173	1234	1309
50°	1147	1241	1348
55°	1118	1262	1408
60°	1071	1286	1486
65°	1002	1332	1578
70°	911	1393	1697
75°	773	1470	1773
80°	610	1479	1434
85°	449	1125	1260



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.6	3.0
10°-20°	252.2	8.6
20°-30°	385.7	13.1
30°-40°	471.6	16.0
40°-50°	502.6	17.1
50°-60°	480.5	16.4
60°-70°	407.1	13.9
70°-80°	273.6	9.3
80°-90°	77.2	2.6
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°	725.6	24.7
0°-40°	1197.2	40.7
0°-60°	2180.3	74.2
0°-90°	2938.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2938.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	924	924	924	924	924	
5°	924	922	918	922	922	88
15°	892	892	890	898	896	251
25°	828	831	836	844	845	382
35°	734	740	752	767	770	460
45°	616	627	648	676	688	475
55°	477	494	538	580	600	424
65°	315	347	418	474	496	313
75°	149	203	283	331	341	159
85°	29	60	73	79	82	36
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	924.0	924.0	924.0	924.0	924.0
2.5°	925.4	925.4	921.1	924.0	924.0
5°	924.0	922.5	918.1	922.5	922.5
7.5°	919.6	918.1	915.2	919.6	918.1
10°	910.9	910.9	907.9	912.3	912.3
12.5°	903.6	902.1	900.7	906.5	905.0
15°	891.9	891.9	890.5	897.7	896.3
17.5°	877.3	878.8	880.3	886.1	887.5
20°	861.3	864.2	865.7	874.4	874.4
22.5°	846.7	848.2	851.1	859.8	859.8
25°	827.8	830.7	836.5	843.8	845.3
27.5°	808.8	810.3	817.6	827.8	829.2
30°	784.1	788.4	797.2	808.8	810.3
32.5°	762.2	766.6	776.8	788.4	791.4
35°	734.5	740.3	752.0	766.6	769.5
37.5°	709.7	714.1	728.7	744.7	749.1
40°	679.1	687.9	702.5	721.4	728.7
42.5°	648.5	657.3	674.8	699.5	708.3
45°	616.5	626.7	648.5	676.2	687.9
47.5°	584.4	596.1	620.8	652.9	666.0
50°	548.0	562.5	593.1	629.6	644.2
52.5°	513.0	530.5	564.0	604.8	623.8
55°	476.6	494.0	537.8	580.0	600.4
57.5°	435.8	459.1	507.2	555.3	577.1
60°	397.9	419.7	478.0	530.5	552.3
62.5°	357.1	386.2	448.9	504.3	526.1
65°	314.8	346.9	418.3	473.6	495.5
67.5°	276.9	311.9	387.7	443.0	464.9
70°	231.7	275.4	354.1	409.5	431.4
72.5°	189.5	237.6	319.2	373.1	393.5
75°	148.7	202.6	282.7	330.8	341.0
77.5°	110.8	167.6	244.8	265.2	258.0
80°	78.7	134.1	190.9	180.7	185.1
82.5°	51.0	102.0	118.0	134.1	138.5
85°	29.1	59.8	72.9	78.7	81.6
87.5°	13.1	21.9	29.1	29.1	27.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)