

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: P276798

Luminaire Tested: **24CZ2-45-RDP-UNV-L83050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276798
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: 24CZ2-45-RDP-UNV-L83050-W2A1-U-3500K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2883.0 lumens
Efficiency: N/A
Efficacy: 82.4 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

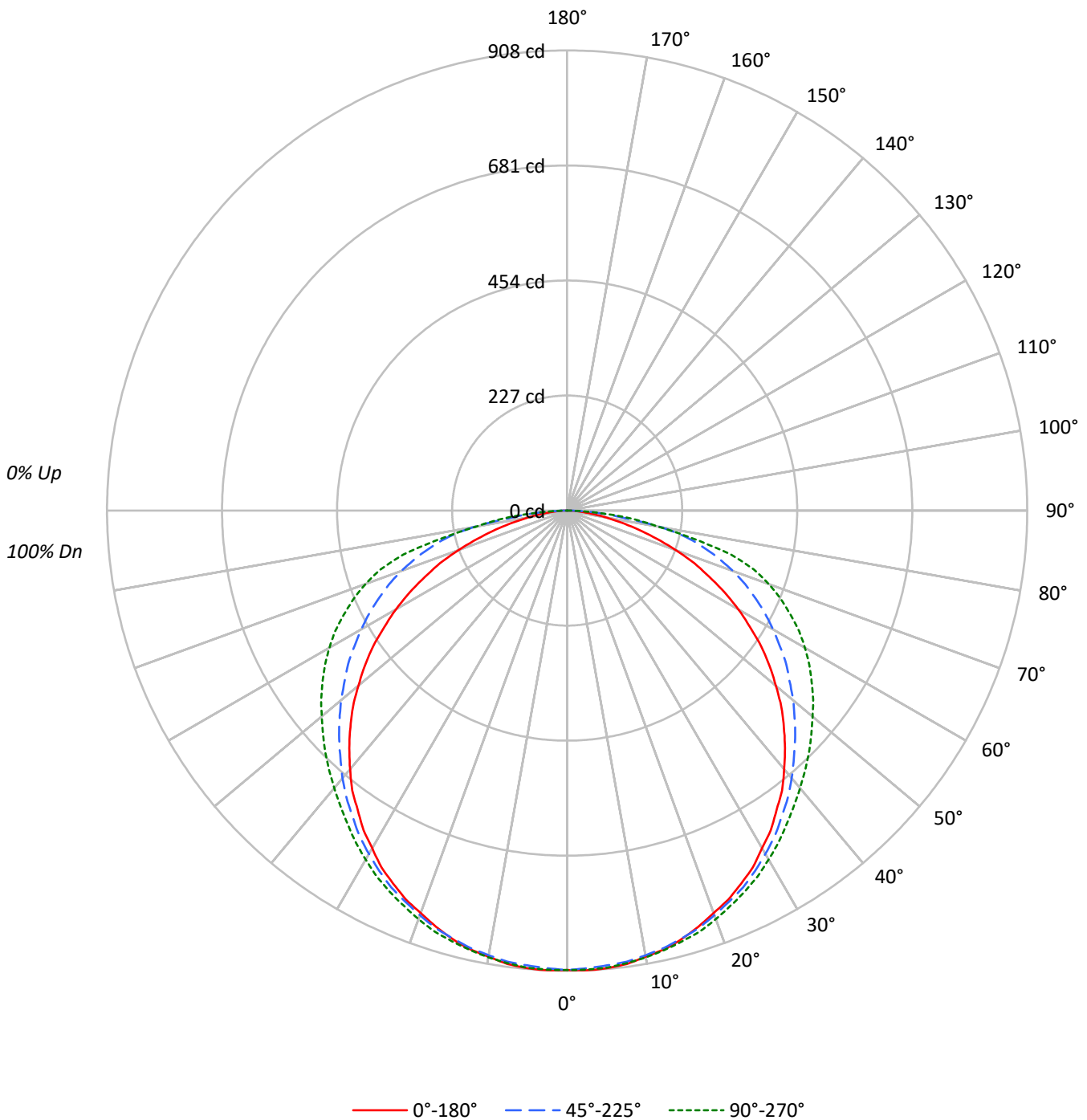
Input Watts (W): 34.968
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1220	1220	1220
5°	1224	1217	1223
10°	1221	1217	1223
15°	1219	1217	1225
20°	1210	1216	1229
25°	1206	1219	1231
30°	1195	1215	1235
35°	1184	1212	1240
40°	1170	1211	1256
45°	1151	1211	1284
50°	1126	1218	1323
55°	1097	1238	1382
60°	1051	1262	1459
65°	983	1307	1548
70°	895	1367	1665
75°	758	1442	1739
80°	598	1451	1407
85°	442	1104	1237



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.0	3.0
10°-20°	247.5	8.6
20°-30°	378.5	13.1
30°-40°	462.7	16.0
40°-50°	493.2	17.1
50°-60°	471.5	16.4
60°-70°	399.4	13.9
70°-80°	268.5	9.3
80°-90°	75.7	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°	712.0	24.7
0°-40°	1174.7	40.7
0°-60°	2139.4	74.2
0°-90°	2883.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2883.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	907	907	907	907	907	
5°	907	905	901	905	905	86
15°	875	875	874	881	880	247
25°	812	815	821	828	829	374
35°	721	726	738	752	755	451
45°	605	615	636	664	675	467
55°	468	485	528	569	589	416
65°	309	340	410	465	486	307
75°	146	199	277	325	335	156
85°	29	59	72	77	80	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	906.6	906.6	906.6	906.6	906.6
2.5°	908.1	908.1	903.8	906.6	906.6
5°	906.6	905.2	900.9	905.2	905.2
7.5°	902.3	900.9	898.0	902.3	900.9
10°	893.8	893.8	890.9	895.2	895.2
12.5°	886.6	885.2	883.7	889.5	888.0
15°	875.2	875.2	873.7	880.9	879.5
17.5°	860.9	862.3	863.7	869.4	870.9
20°	845.1	848.0	849.4	858.0	858.0
22.5°	830.8	832.3	835.1	843.7	843.7
25°	812.2	815.1	820.8	828.0	829.4
27.5°	793.7	795.1	802.2	812.2	813.7
30°	769.3	773.6	782.2	793.7	795.1
32.5°	747.9	752.2	762.2	773.6	776.5
35°	720.7	726.4	737.9	752.2	755.0
37.5°	696.4	700.7	715.0	730.7	735.0
40°	666.4	675.0	689.3	707.9	715.0
42.5°	636.4	644.9	662.1	686.4	695.0
45°	604.9	614.9	636.4	663.5	675.0
47.5°	573.4	584.9	609.2	640.6	653.5
50°	537.7	552.0	582.0	617.8	632.1
52.5°	503.4	520.5	553.4	593.5	612.0
55°	467.6	484.8	527.7	569.1	589.2
57.5°	427.6	450.5	497.6	544.8	566.3
60°	390.4	411.8	469.0	520.5	542.0
62.5°	350.4	379.0	440.4	494.8	516.2
65°	308.9	340.3	410.4	464.8	486.2
67.5°	271.7	306.0	380.4	434.7	456.2
70°	227.4	270.3	347.5	401.8	423.3
72.5°	185.9	233.1	313.2	366.1	386.1
75°	145.9	198.8	277.4	324.6	334.6
77.5°	108.7	164.5	240.2	260.3	253.1
80°	77.2	131.6	187.3	177.3	181.6
82.5°	50.1	100.1	115.8	131.6	135.9
85°	28.6	58.6	71.5	77.2	80.1
87.5°	12.9	21.5	28.6	28.6	27.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)