

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: P277003

Luminaire Tested: **24CZ2-45-RDP-UNV-L82765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277003
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-L82765-W2A1-U-4500K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2929.3 lumens
Efficiency: N/A
Efficacy: 82.2 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

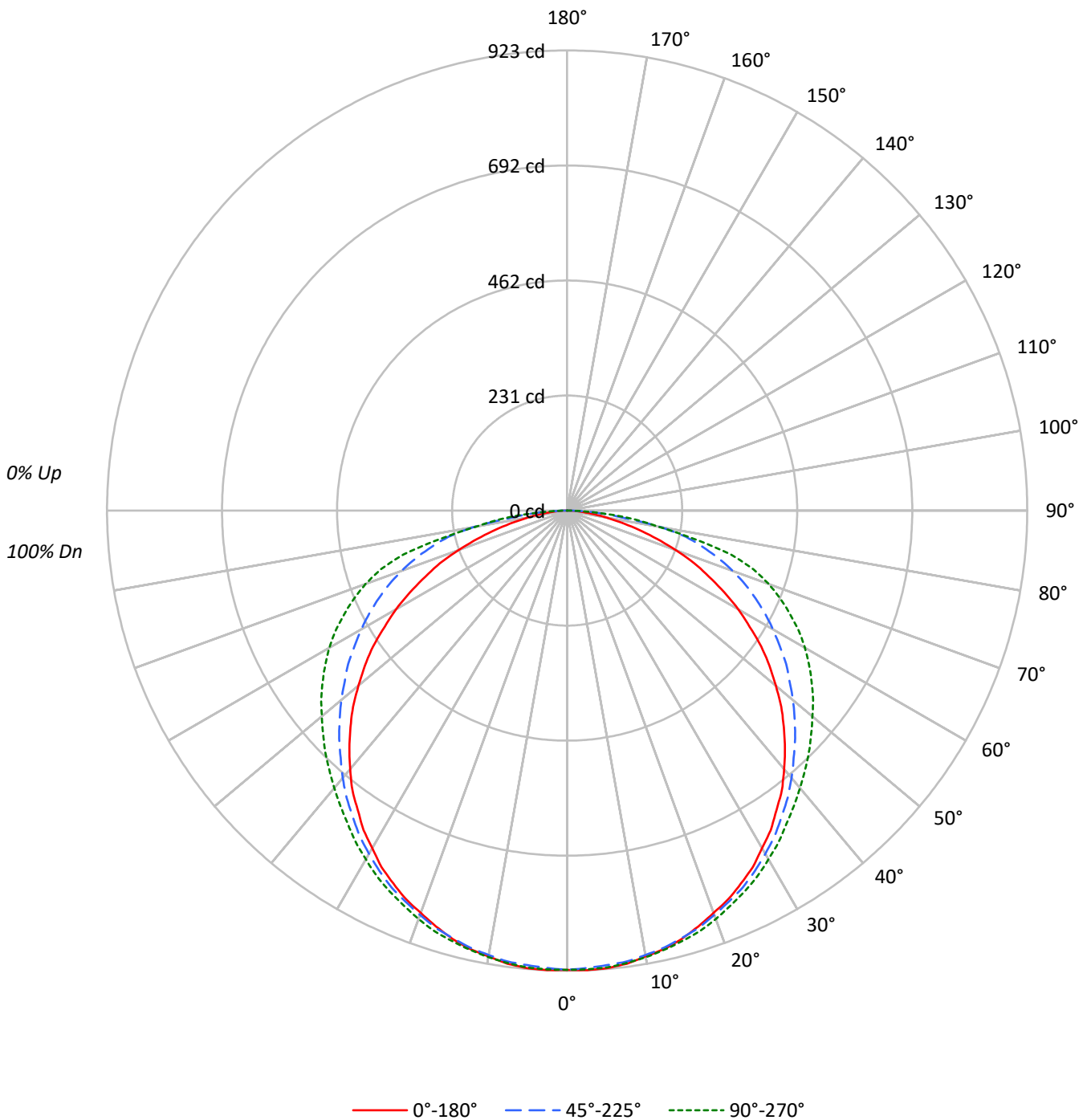
Input Watts (W): 35.619
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1239	1239	1239
5°	1244	1236	1242
10°	1241	1237	1243
15°	1239	1237	1245
20°	1230	1236	1248
25°	1225	1238	1251
30°	1214	1235	1255
35°	1203	1231	1260
40°	1189	1230	1276
45°	1169	1230	1305
50°	1144	1238	1344
55°	1114	1258	1404
60°	1068	1283	1482
65°	999	1328	1573
70°	909	1389	1692
75°	770	1465	1768
80°	608	1475	1430
85°	449	1121	1257



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.4	3.0
10°-20°	251.5	8.6
20°-30°	384.6	13.1
30°-40°	470.1	16.0
40°-50°	501.1	17.1
50°-60°	479.1	16.4
60°-70°	405.8	13.9
70°-80°	272.8	9.3
80°-90°	77.0	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°	723.4	24.7
0°-40°	1193.6	40.7
0°-60°	2173.7	74.2
0°-90°	2929.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2929.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	921	921	921	921	921	
5°	921	920	915	920	920	88
15°	889	889	888	895	894	251
25°	825	828	834	841	843	380
35°	732	738	750	764	767	459
45°	615	625	647	674	686	474
55°	475	493	536	578	599	423
65°	314	346	417	472	494	312
75°	148	202	282	330	340	159
85°	29	60	73	78	81	36
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	921.2	921.2	921.2	921.2	921.2
2.5°	922.6	922.6	918.3	921.2	921.2
5°	921.2	919.7	915.4	919.7	919.7
7.5°	916.8	915.4	912.5	916.8	915.4
10°	908.1	908.1	905.2	909.5	909.5
12.5°	900.8	899.4	897.9	903.7	902.3
15°	889.2	889.2	887.8	895.0	893.6
17.5°	874.7	876.1	877.6	883.4	884.8
20°	858.7	861.6	863.1	871.8	871.8
22.5°	844.2	845.6	848.5	857.2	857.2
25°	825.3	828.2	834.0	841.3	842.7
27.5°	806.4	807.8	815.1	825.3	826.7
30°	781.7	786.0	794.8	806.4	807.8
32.5°	759.9	764.3	774.4	786.0	789.0
35°	732.3	738.1	749.7	764.3	767.2
37.5°	707.6	711.9	726.5	742.5	746.8
40°	677.1	685.8	700.3	719.2	726.5
42.5°	646.6	655.3	672.7	697.4	706.1
45°	614.6	624.8	646.6	674.2	685.8
47.5°	582.6	594.3	619.0	650.9	664.0
50°	546.3	560.8	591.4	627.7	642.2
52.5°	511.4	528.9	562.3	603.0	621.9
55°	475.1	492.6	536.1	578.3	598.6
57.5°	434.4	457.7	505.6	553.6	575.4
60°	396.7	418.5	476.6	528.9	550.7
62.5°	356.0	385.0	447.5	502.7	524.5
65°	313.8	345.8	417.0	472.2	494.0
67.5°	276.1	310.9	386.5	441.7	463.5
70°	231.0	274.6	353.1	408.3	430.1
72.5°	188.9	236.8	318.2	372.0	392.3
75°	148.2	202.0	281.9	329.8	340.0
77.5°	110.4	167.1	244.1	264.4	257.2
80°	78.5	133.7	190.3	180.2	184.5
82.5°	50.9	101.7	117.7	133.7	138.0
85°	29.1	59.6	72.6	78.5	81.4
87.5°	13.1	21.8	29.1	29.1	27.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)