

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: P277142

Luminaire Tested: **24CZ2-45-RDP-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277142
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-L92765-W2A1-U-6500K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2736.5 lumens
Efficiency: N/A
Efficacy: 74.7 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

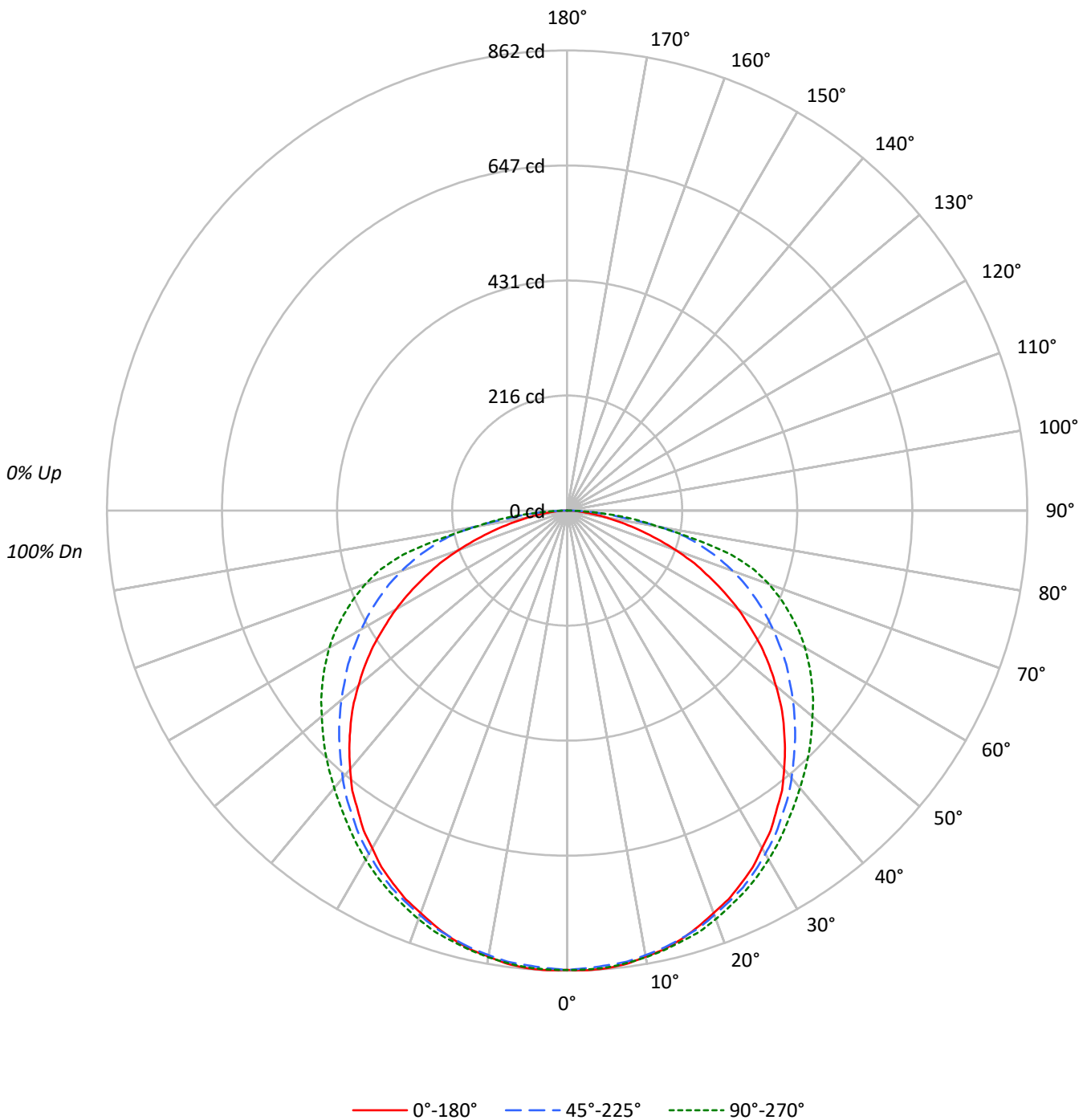
Input Watts (W): 36.642
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	68	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°	1158	1158	1158
5°	1162	1155	1160
10°	1159	1155	1161
15°	1157	1155	1163
20°	1149	1154	1166
25°	1145	1157	1169
30°	1134	1154	1173
35°	1124	1150	1177
40°	1111	1149	1192
45°	1093	1149	1219
50°	1068	1156	1256
55°	1041	1175	1312
60°	997	1198	1384
65°	933	1240	1469
70°	849	1297	1581
75°	719	1369	1651
80°	568	1378	1336
85°	418	1048	1173



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.6	3.0
10°-20°	234.9	8.6
20°-30°	359.3	13.1
30°-40°	439.2	16.0
40°-50°	468.1	17.1
50°-60°	447.6	16.4
60°-70°	379.1	13.9
70°-80°	254.8	9.3
80°-90°	71.9	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°	675.8	24.7
0°-40°	1115.0	40.7
0°-60°	2030.7	74.2
0°-90°	2736.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2736.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	860	860	860	860	860	
5°	860	859	855	859	859	82
15°	831	831	829	836	835	234
25°	771	774	779	786	787	355
35°	684	690	700	714	717	429
45°	574	584	604	630	641	443
55°	444	460	501	540	559	395
65°	293	323	390	441	462	291
75°	138	189	263	308	318	148
85°	27	56	68	73	76	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	860.5	860.5	860.5	860.5	860.5
2.5°	861.9	861.9	857.8	860.5	860.5
5°	860.5	859.2	855.1	859.2	859.2
7.5°	856.5	855.1	852.4	856.5	855.1
10°	848.3	848.3	845.6	849.7	849.7
12.5°	841.5	840.2	838.8	844.3	842.9
15°	830.7	830.7	829.3	836.1	834.8
17.5°	817.1	818.5	819.8	825.3	826.6
20°	802.2	804.9	806.3	814.4	814.4
22.5°	788.6	790.0	792.7	800.8	800.8
25°	771.0	773.7	779.1	785.9	787.3
27.5°	753.3	754.7	761.5	771.0	772.3
30°	730.2	734.3	742.5	753.3	754.7
32.5°	709.9	714.0	723.5	734.3	737.0
35°	684.1	689.5	700.4	714.0	716.7
37.5°	661.0	665.1	678.7	693.6	697.7
40°	632.5	640.7	654.2	671.9	678.7
42.5°	604.0	612.2	628.4	651.5	659.7
45°	574.2	583.7	604.0	629.8	640.7
47.5°	544.3	555.1	578.2	608.1	620.3
50°	510.4	523.9	552.4	586.4	599.9
52.5°	477.8	494.1	525.3	563.3	580.9
55°	443.8	460.1	500.9	540.2	559.2
57.5°	405.8	427.6	472.4	517.1	537.5
60°	370.6	390.9	445.2	494.1	514.4
62.5°	332.5	359.7	418.1	469.6	490.0
65°	293.2	323.0	389.6	441.1	461.5
67.5°	257.9	290.5	361.0	412.6	433.0
70°	215.8	256.5	329.8	381.4	401.8
72.5°	176.5	221.2	297.3	347.5	366.5
75°	138.4	188.7	263.3	308.1	317.6
77.5°	103.2	156.1	228.0	247.0	240.2
80°	73.3	124.9	177.8	168.3	172.4
82.5°	47.5	95.0	109.9	124.9	128.9
85°	27.1	55.7	67.9	73.3	76.0
87.5°	12.2	20.4	27.1	27.1	25.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)