

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: P277000

Luminaire Tested: **24CZ2-45-RDP-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277000
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-3000K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2722.5 lumens
Efficiency: N/A
Efficacy: 78.5 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

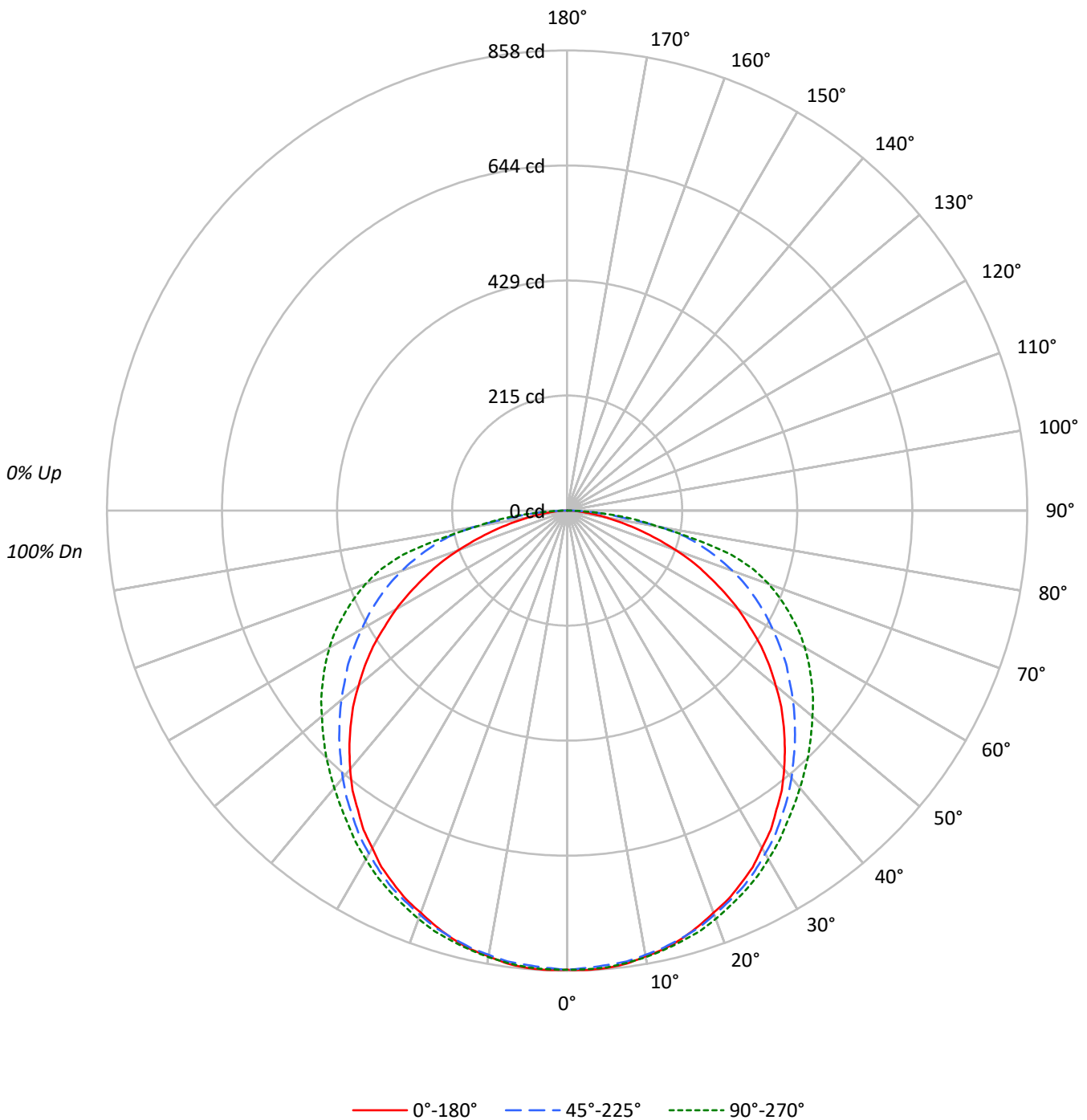
Input Watts (W): 34.689
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1152	1152	1152
5°	1156	1149	1155
10°	1153	1149	1155
15°	1151	1149	1157
20°	1143	1148	1160
25°	1139	1151	1163
30°	1129	1148	1166
35°	1118	1145	1171
40°	1105	1143	1186
45°	1087	1143	1213
50°	1063	1150	1249
55°	1036	1169	1305
60°	992	1192	1377
65°	929	1234	1462
70°	845	1291	1572
75°	716	1362	1643
80°	565	1371	1329
85°	417	1042	1167



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.2	3.0
10°-20°	233.7	8.6
20°-30°	357.4	13.1
30°-40°	437.0	16.0
40°-50°	465.7	17.1
50°-60°	445.3	16.4
60°-70°	377.2	13.9
70°-80°	253.5	9.3
80°-90°	71.5	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°	672.4	24.7
0°-40°	1109.3	40.7
0°-60°	2020.3	74.2
0°-90°	2722.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2722.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	856	856	856	856	856	
5°	856	855	851	855	855	81
15°	826	826	825	832	830	233
25°	767	770	775	782	783	354
35°	681	686	697	710	713	426
45°	571	581	601	627	637	441
55°	442	458	498	538	556	393
65°	292	321	388	439	459	290
75°	138	188	262	306	316	147
85°	27	55	68	73	76	33
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	856.1	856.1	856.1	856.1	856.1
2.5°	857.5	857.5	853.4	856.1	856.1
5°	856.1	854.8	850.7	854.8	854.8
7.5°	852.1	850.7	848.0	852.1	850.7
10°	844.0	844.0	841.3	845.3	845.3
12.5°	837.2	835.9	834.5	839.9	838.6
15°	826.4	826.4	825.1	831.8	830.5
17.5°	812.9	814.3	815.6	821.0	822.4
20°	798.1	800.8	802.1	810.2	810.2
22.5°	784.6	785.9	788.6	796.7	796.7
25°	767.0	769.7	775.1	781.9	783.2
27.5°	749.5	750.8	757.6	767.0	768.4
30°	726.5	730.6	738.7	749.5	750.8
32.5°	706.3	710.3	719.8	730.6	733.3
35°	680.6	686.0	696.8	710.3	713.0
37.5°	657.6	661.7	675.2	690.0	694.1
40°	629.3	637.4	650.9	668.4	675.2
42.5°	600.9	609.0	625.2	648.2	656.3
45°	571.2	580.7	600.9	626.6	637.4
47.5°	541.5	552.3	575.3	605.0	617.1
50°	507.7	521.2	549.6	583.4	596.9
52.5°	475.3	491.5	522.6	560.4	578.0
55°	441.6	457.8	498.3	537.5	556.4
57.5°	403.8	425.4	469.9	514.5	534.8
60°	368.7	388.9	442.9	491.5	511.8
62.5°	330.8	357.9	415.9	467.2	487.5
65°	291.7	321.4	387.6	438.9	459.1
67.5°	256.6	289.0	359.2	410.5	430.8
70°	214.7	255.2	328.1	379.5	399.7
72.5°	175.6	220.1	295.7	345.7	364.6
75°	137.7	187.7	262.0	306.5	316.0
77.5°	102.6	155.3	226.9	245.8	239.0
80°	72.9	124.2	176.9	167.4	171.5
82.5°	47.3	94.5	109.4	124.2	128.3
85°	27.0	55.4	67.5	72.9	75.6
87.5°	12.2	20.3	27.0	27.0	25.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)