

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: P277145

Luminaire Tested: **24CZ2-50-RDP-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277145
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: 24CZ2-50-RDP-UNV-L92765-W2A1-U-3500K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2723.1 lumens
Efficiency: N/A
Efficacy: 68.4 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

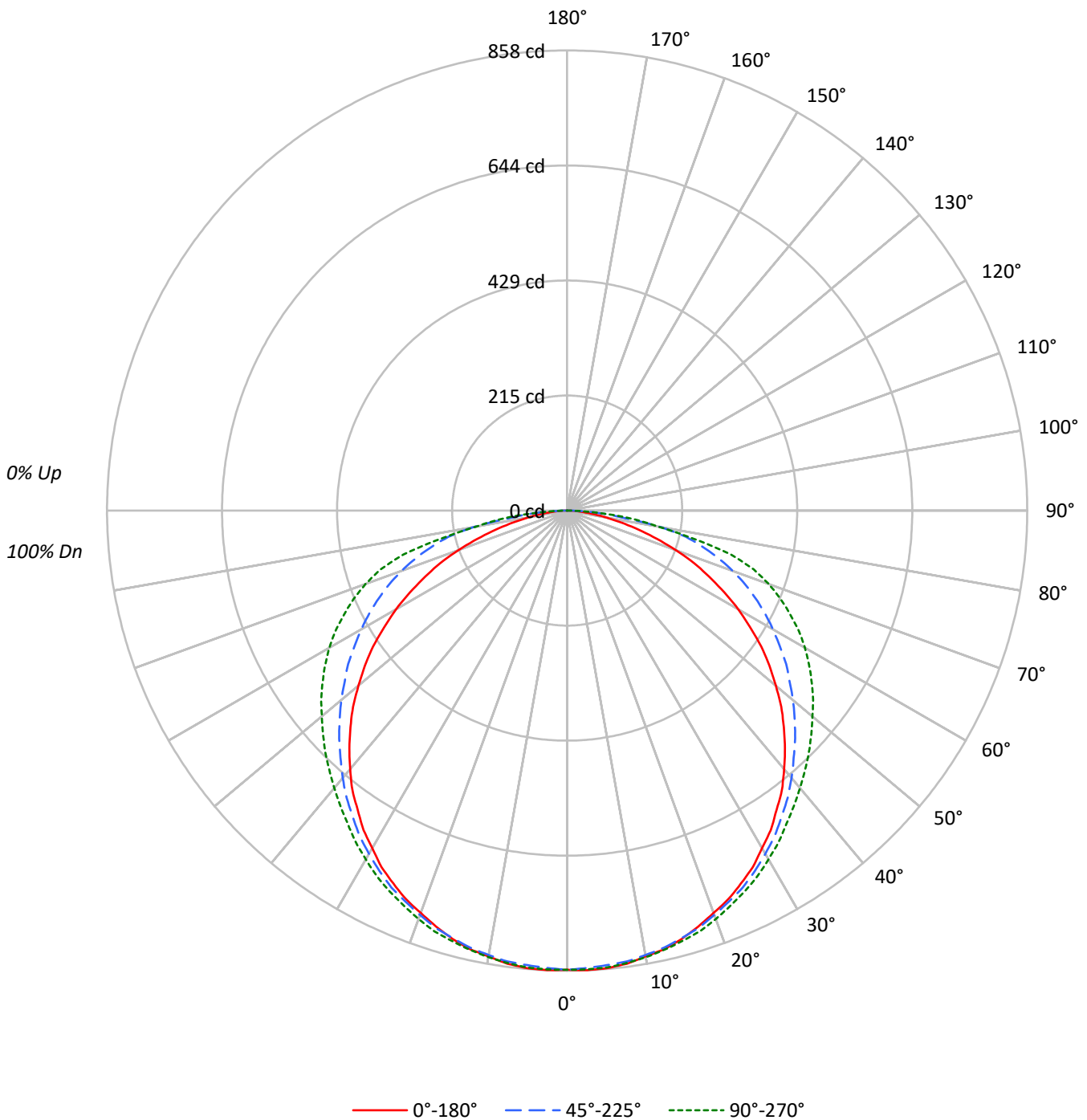
Input Watts (W): 39.804
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1157	1149	1155
10°	1153	1150	1155
15°	1151	1150	1157
20°	1143	1149	1160
25°	1139	1151	1163
30°	1129	1148	1167
35°	1118	1145	1171
40°	1105	1143	1186
45°	1087	1144	1213
50°	1063	1151	1250
55°	1036	1169	1305
60°	992	1192	1378
65°	929	1234	1462
70°	845	1291	1573
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°	233.8	8.6
20°-30°	357.5	13.1
30°-40°	437.1	16.0
40°-50°	465.8	17.1
50°-60°	445.4	16.4
60°-70°	377.3	13.9
70°-80°	253.6	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°	672.5	24.7
0°-40°	1109.6	40.7
0°-60°	2020.7	74.2
0°-90°	2723.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2723.1	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°	827	827	825	832	831	233
25°	767	770	775	782	783	354
35°	681	686	697	710	713	426
45°	571	581	601	627	638	441
55°	442	458	498	538	556	393
65°	292	322	388	439	459	290
75°	138	188	262	307	316	148
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°	856.3	856.3	856.3	856.3	856.3
2.5°	857.7	857.7	853.6	856.3	856.3
5°	856.3	855.0	850.9	855.0	855.0
7.5°	852.3	850.9	848.2	852.3	850.9
10°	844.2	844.2	841.5	845.5	845.5
12.5°	837.4	836.1	834.7	840.1	838.8
15°	826.6	826.6	825.3	832.0	830.7
17.5°	813.1	814.5	815.8	821.2	822.6
20°	798.3	801.0	802.3	810.4	810.4
22.5°	784.8	786.1	788.8	796.9	796.9
25°	767.2	769.9	775.3	782.1	783.4
27.5°	749.6	751.0	757.7	767.2	768.5
30°	726.7	730.7	738.8	749.6	751.0
32.5°	706.4	710.5	719.9	730.7	733.4
35°	680.8	686.2	697.0	710.5	713.2
37.5°	657.8	661.8	675.4	690.2	694.3
40°	629.4	637.5	651.0	668.6	675.4
42.5°	601.1	609.2	625.4	648.3	656.4
45°	571.3	580.8	601.1	626.7	637.5
47.5°	541.6	552.4	575.4	605.1	617.3
50°	507.9	521.4	549.7	583.5	597.0
52.5°	475.4	491.7	522.7	560.5	578.1
55°	441.7	457.9	498.4	537.6	556.5
57.5°	403.9	425.5	470.0	514.6	534.9
60°	368.7	389.0	443.0	491.7	511.9
62.5°	330.9	357.9	416.0	467.3	487.6
65°	291.8	321.5	387.7	439.0	459.2
67.5°	256.6	289.1	359.3	410.6	430.9
70°	214.8	255.3	328.2	379.5	399.8
72.5°	175.6	220.2	295.8	345.8	364.7
75°	137.8	187.7	262.0	306.6	316.1
77.5°	102.7	155.3	226.9	245.8	239.1
80°	72.9	124.3	176.9	167.5	171.5
82.5°	47.3	94.5	109.4	124.3	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)