

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: P276878

Luminaire Tested: **24CZ2-50-RDP-UNV-L93050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276878
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-L93050-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: 2705.1 lumens
Efficiency: N/A
Efficacy: 66.8 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

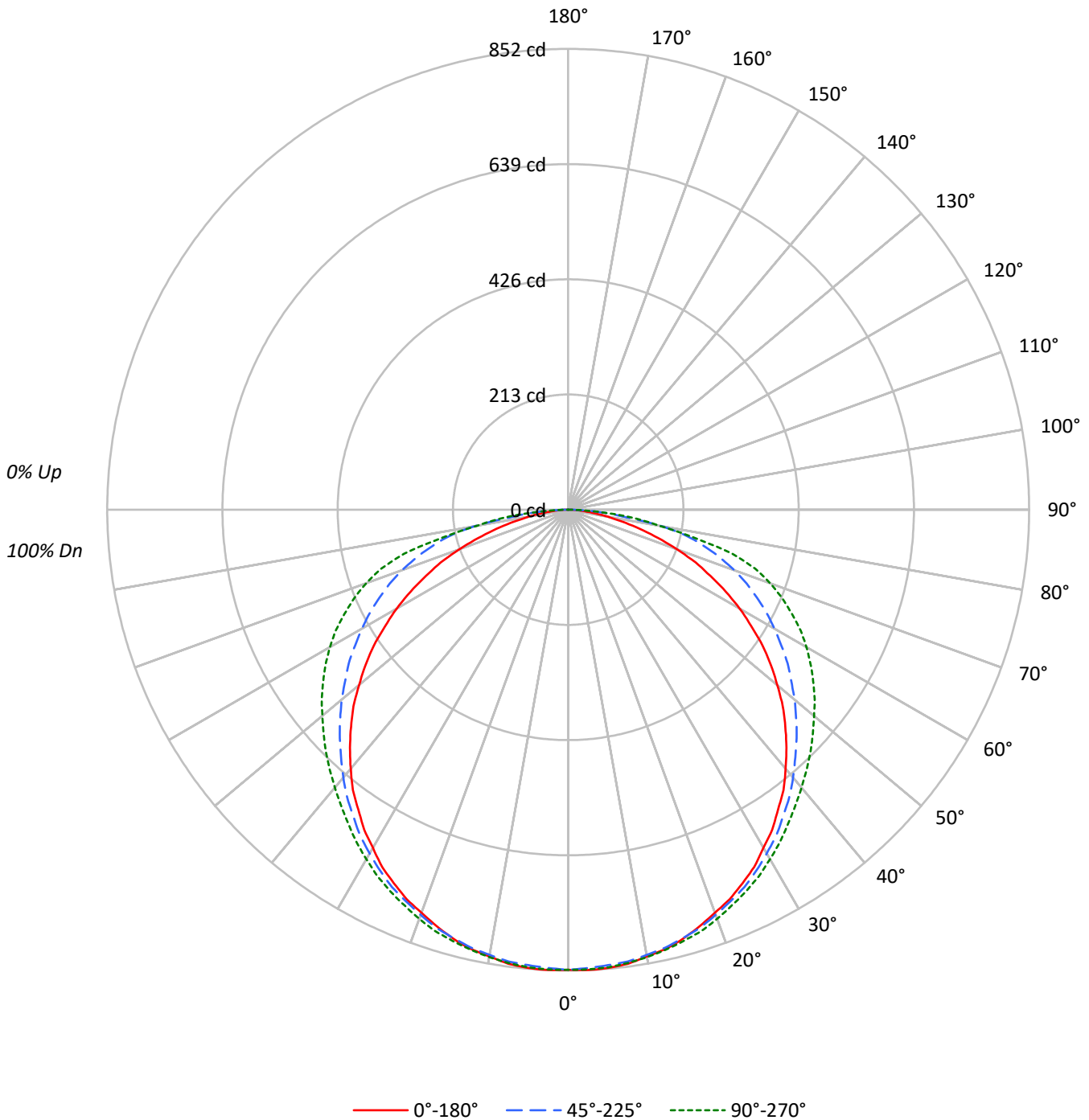
Input Watts (W): 40.465509
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1145	1145	1145
5°	1149	1142	1147
10°	1146	1142	1148
15°	1144	1142	1149
20°	1135	1141	1153
25°	1131	1143	1155
30°	1122	1140	1159
35°	1111	1137	1164
40°	1098	1136	1178
45°	1080	1136	1205
50°	1056	1143	1241
55°	1029	1161	1297
60°	986	1184	1368
65°	923	1226	1452
70°	839	1283	1563
75°	712	1353	1632
80°	562	1362	1320
85°	414	1036	1159



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.7	3.0
10°-20°	232.2	8.6
20°-30°	355.1	13.1
30°-40°	434.2	16.0
40°-50°	462.7	17.1
50°-60°	442.4	16.4
60°-70°	374.8	13.9
70°-80°	251.9	9.3
80°-90°	71.0	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°	668.1	24.7
0°-40°	1102.2	40.7
0°-60°	2007.4	74.2
0°-90°	2705.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2705.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	851	851	851	851	851	
5°	851	849	845	849	849	81
15°	821	821	820	826	825	232
25°	762	765	770	777	778	351
35°	676	682	692	706	708	424
45°	568	577	597	623	633	438
55°	439	455	495	534	553	391
65°	290	319	385	436	456	288
75°	137	186	260	305	314	147
85°	27	55	67	72	75	33
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	850.7	850.7	850.7	850.7	850.7
2.5°	852.0	852.0	848.0	850.7	850.7
5°	850.7	849.3	845.3	849.3	849.3
7.5°	846.7	845.3	842.6	846.7	845.3
10°	838.6	838.6	835.9	839.9	839.9
12.5°	831.9	830.6	829.2	834.6	833.2
15°	821.2	821.2	819.8	826.5	825.2
17.5°	807.7	809.1	810.4	815.8	817.1
20°	793.0	795.7	797.0	805.1	805.1
22.5°	779.6	780.9	783.6	791.6	791.6
25°	762.1	764.8	770.2	776.9	778.2
27.5°	744.7	746.0	752.7	762.1	763.5
30°	721.9	725.9	733.9	744.7	746.0
32.5°	701.7	705.8	715.2	725.9	728.6
35°	676.3	681.6	692.4	705.8	708.5
37.5°	653.4	657.5	670.9	685.6	689.7
40°	625.3	633.3	646.7	664.2	670.9
42.5°	597.1	605.1	621.2	644.1	652.1
45°	567.6	577.0	597.1	622.6	633.3
47.5°	538.1	548.8	571.6	601.1	613.2
50°	504.5	517.9	546.1	579.6	593.1
52.5°	472.3	488.4	519.3	556.8	574.3
55°	438.8	454.9	495.1	534.0	552.8
57.5°	401.2	422.7	466.9	511.2	531.3
60°	366.3	386.4	440.1	488.4	508.5
62.5°	328.7	355.6	413.3	464.3	484.4
65°	289.8	319.3	385.1	436.1	456.2
67.5°	254.9	287.1	356.9	407.9	428.0
70°	213.3	253.6	326.1	377.0	397.2
72.5°	174.4	218.7	293.8	343.5	362.3
75°	136.9	186.5	260.3	304.6	314.0
77.5°	102.0	154.3	225.4	244.2	237.5
80°	72.5	123.4	175.8	166.4	170.4
82.5°	47.0	93.9	108.7	123.4	127.5
85°	26.8	55.0	67.1	72.5	75.1
87.5°	12.1	20.1	26.8	26.8	25.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)