

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: P230476

Luminaire Tested: **24CZ-LD5-50-RDP-UNV-L930-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P230476
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25696)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ-LD5-50-RDP-UNV-L930-CD1-U
Description: CRUZE 2x4 LED TROFFER
WITH RDP LENS
Light Source: (168) 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2720.9 lumens
Efficiency: N/A
Efficacy: 66.9 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

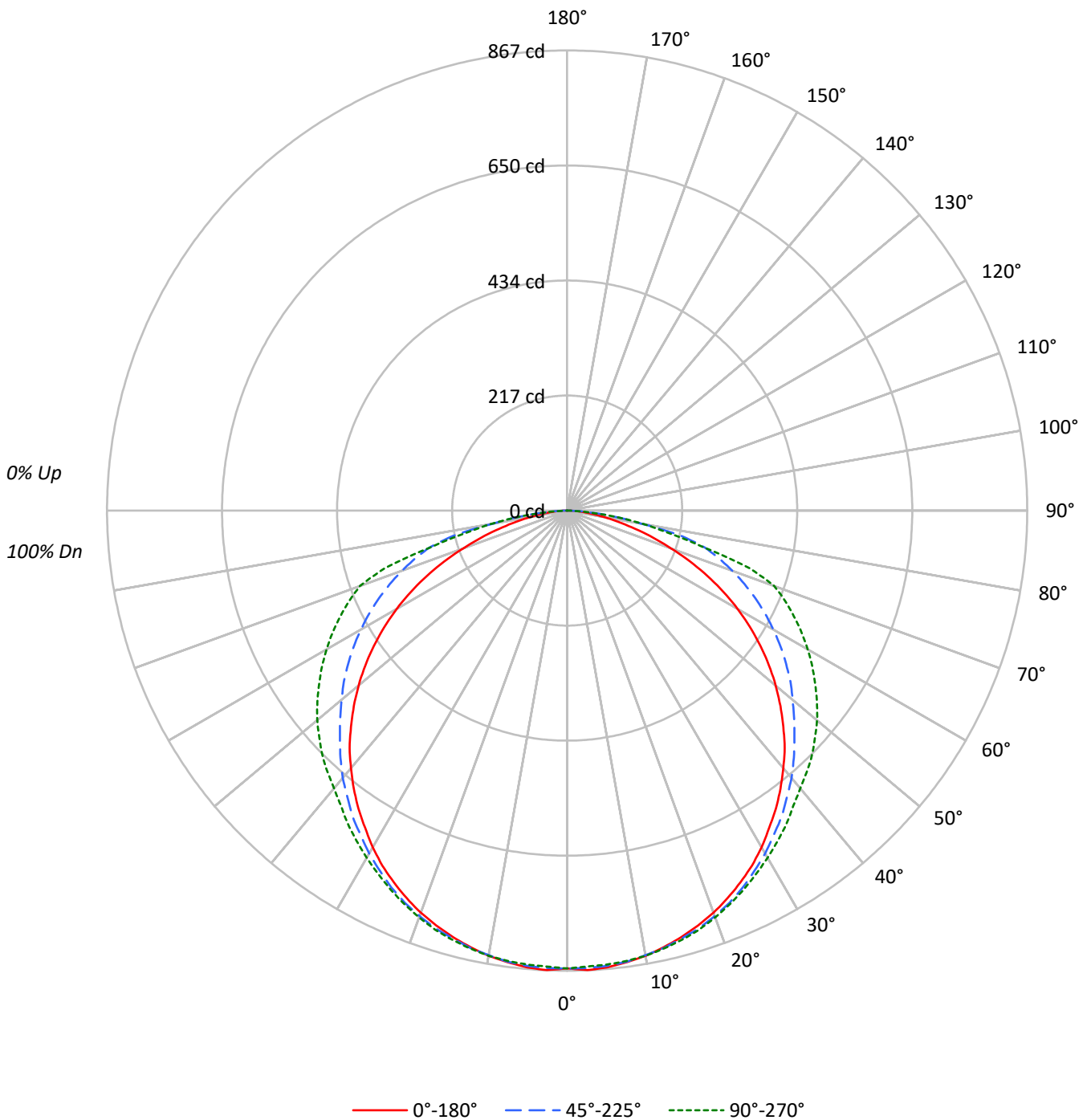
Input Watts (W): 40.68
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	101	97	93	96	93	90		92	90	87		89	87	84	82
2	98	89	82	76	95	87	80	75	83	78	73		80	75	71		77	73	70	67
3	89	78	69	62	86	76	68	61	73	66	60		70	64	59		67	62	58	56
4	81	68	59	52	78	67	58	52	64	57	51		62	56	50		60	54	50	47
5	74	61	51	45	72	60	51	44	57	50	44		55	49	43		54	48	43	41
6	68	55	45	39	66	54	45	38	52	44	38		50	43	38		48	42	37	35
7	63	49	40	34	61	48	40	34	47	39	34		45	38	33		44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30		42	35	30		40	34	29	27
9	55	41	33	27	53	41	32	27	39	32	27		38	32	27		37	31	27	25
10	51	38	30	24	50	37	30	24	36	29	24		35	29	24		35	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1161	1161	1161
5°	1167	1163	1160
10°	1164	1162	1164
15°	1159	1162	1166
20°	1154	1164	1168
25°	1147	1163	1169
30°	1138	1159	1174
35°	1126	1157	1184
40°	1113	1155	1200
45°	1096	1152	1241
50°	1074	1161	1287
55°	1043	1181	1339
60°	998	1207	1409
65°	930	1245	1501
70°	822	1301	1633
75°	689	1393	1372
80°	550	1100	1141
85°	434	744	682



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.8	3.0
10°-20°	235.4	8.7
20°-30°	359.6	13.2
30°-40°	439.7	16.2
40°-50°	470.6	17.3
50°-60°	451.4	16.6
60°-70°	381.2	14.0
70°-80°	243.6	9.0
80°-90°	57.6	2.1
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°	676.9	24.9
0°-40°	1116.6	41.0
0°-60°	2038.6	74.9
0°-90°	2720.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2720.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	863	863	863	863	863	
5°	864	858	861	860	858	82
15°	832	829	834	837	837	235
25°	773	772	784	786	788	356
35°	686	691	704	714	721	429
45°	576	585	605	634	652	444
55°	445	459	504	549	571	397
65°	292	320	391	446	472	288
75°	133	189	268	273	264	143
85°	28	47	48	47	44	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	862.6	862.6	862.6	862.6	862.6
2.5°	866.6	861.2	862.6	862.6	859.9
5°	863.9	858.5	861.2	859.9	858.5
7.5°	858.5	854.5	857.2	857.2	855.9
10°	851.8	847.8	850.5	851.8	851.8
12.5°	842.5	839.8	843.8	843.8	845.1
15°	831.7	829.1	834.4	837.1	837.1
17.5°	819.7	818.4	825.1	826.4	827.7
20°	806.3	805.0	813.0	813.0	815.7
22.5°	790.2	788.9	799.6	799.6	802.3
25°	772.8	771.5	783.5	786.2	787.6
27.5°	754.1	752.7	764.8	768.8	771.5
30°	732.6	732.6	746.0	751.4	755.4
32.5°	708.5	712.5	724.6	732.6	738.0
35°	685.8	691.1	704.5	713.9	720.6
37.5°	660.3	665.7	680.4	692.5	700.5
40°	633.5	640.2	657.6	671.0	683.1
42.5°	606.7	613.4	632.2	652.3	668.3
45°	575.9	585.3	605.4	633.5	652.3
47.5°	545.1	554.5	579.9	614.8	633.5
50°	513.0	523.7	554.5	594.7	614.8
52.5°	479.5	491.5	530.4	573.3	593.3
55°	444.7	459.4	503.6	549.1	570.6
57.5°	408.5	424.6	476.8	525.0	547.8
60°	371.0	391.1	448.7	499.6	523.7
62.5°	332.2	356.3	420.6	472.8	498.2
65°	292.0	320.1	391.1	446.0	471.5
67.5°	250.5	288.0	361.6	419.2	444.7
70°	208.9	253.1	330.8	389.8	415.2
72.5°	170.1	221.0	300.0	354.9	360.3
75°	132.6	188.9	267.9	273.2	263.9
77.5°	99.1	156.7	221.0	196.9	195.5
80°	71.0	125.9	142.0	146.0	147.3
82.5°	46.9	95.1	92.4	95.1	93.8
85°	28.1	46.9	48.2	46.9	44.2
87.5°	13.4	17.4	13.4	12.1	10.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)