

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: P230480

Luminaire Tested: **24CZ-LD5-55-RDP-UNV-L930-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P230480
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-LD5-55-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: 3002.1 lumens
Efficiency: N/A
Efficacy: 65.5 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

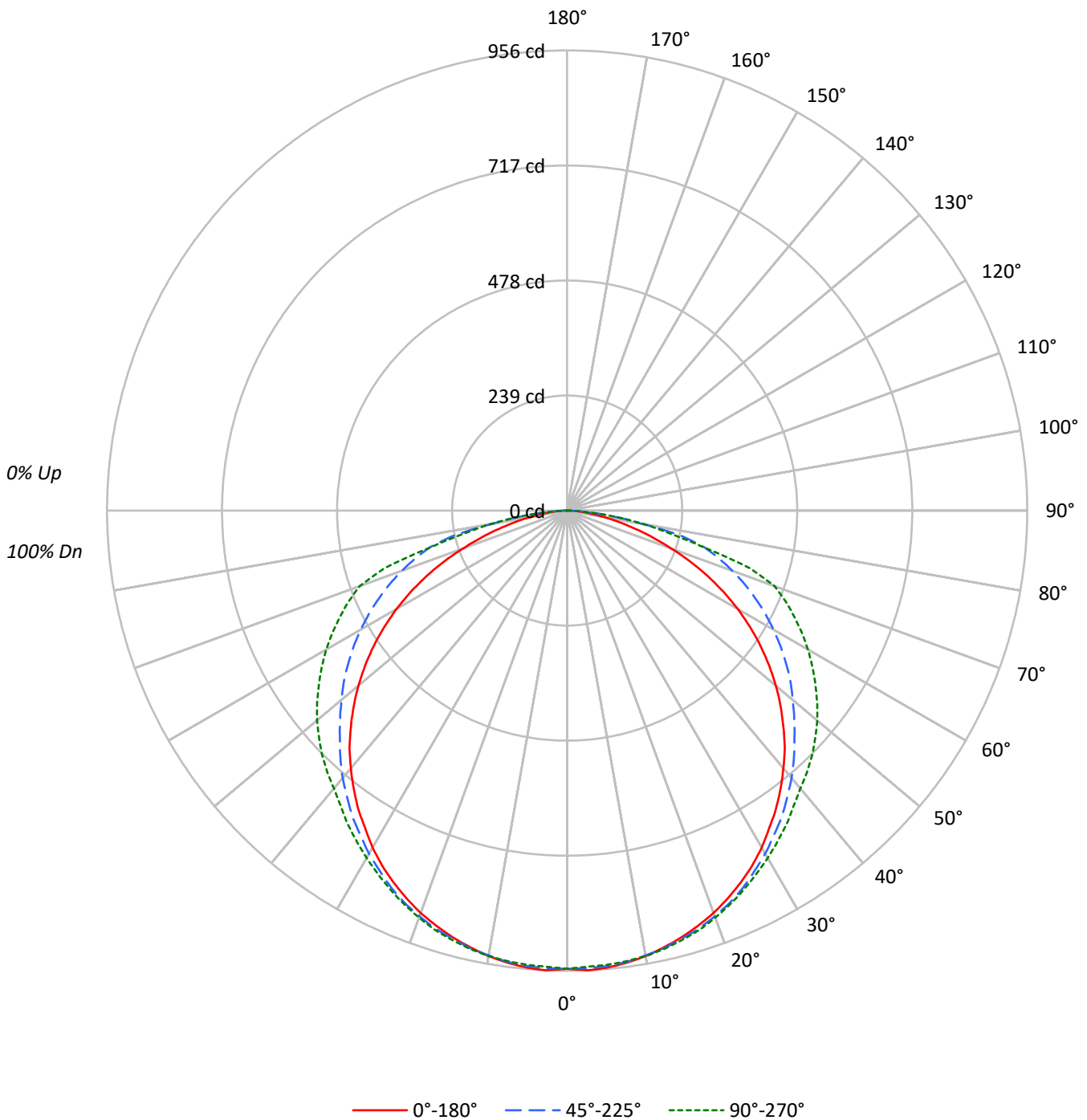
Input Watts (W): 45.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	62	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°	1281	1281	1281
5°	1287	1283	1279
10°	1284	1282	1284
15°	1278	1282	1287
20°	1274	1284	1289
25°	1266	1283	1290
30°	1256	1279	1295
35°	1243	1277	1306
40°	1228	1274	1324
45°	1209	1271	1369
50°	1185	1281	1420
55°	1151	1303	1477
60°	1101	1332	1555
65°	1026	1374	1656
70°	907	1436	1802
75°	761	1537	1513
80°	607	1213	1260
85°	479	821	753



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.3	3.0
10°-20°	259.8	8.7
20°-30°	396.8	13.2
30°-40°	485.1	16.2
40°-50°	519.3	17.3
50°-60°	498.1	16.6
60°-70°	420.5	14.0
70°-80°	268.8	9.0
80°-90°	63.6	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°	746.8	24.9
0°-40°	1231.9	41.0
0°-60°	2249.2	74.9
0°-90°	3002.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3002.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	952	952	952	952	952	
5°	953	947	950	949	947	91
15°	918	915	921	924	924	259
25°	853	851	864	868	869	393
35°	757	762	777	788	795	473
45°	635	646	668	699	720	490
55°	491	507	556	606	630	438
65°	322	353	432	492	520	318
75°	146	208	296	302	291	158
85°	31	52	53	52	49	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	951.7	951.7	951.7	951.7	951.7
2.5°	956.1	950.2	951.7	951.7	948.7
5°	953.2	947.3	950.2	948.7	947.3
7.5°	947.3	942.8	945.8	945.8	944.3
10°	939.9	935.4	938.4	939.9	939.9
12.5°	929.5	926.6	931.0	931.0	932.5
15°	917.7	914.7	920.7	923.6	923.6
17.5°	904.4	902.9	910.3	911.8	913.3
20°	889.6	888.1	897.0	897.0	900.0
22.5°	871.9	870.4	882.2	882.2	885.2
25°	852.7	851.2	864.5	867.5	868.9
27.5°	832.0	830.5	843.8	848.2	851.2
30°	808.3	808.3	823.1	829.0	833.5
32.5°	781.7	786.2	799.5	808.3	814.3
35°	756.6	762.5	777.3	787.7	795.0
37.5°	728.5	734.5	750.7	764.0	772.9
40°	699.0	706.4	725.6	740.4	753.7
42.5°	669.4	676.8	697.5	719.7	737.4
45°	635.4	645.8	668.0	699.0	719.7
47.5°	601.5	611.8	639.9	678.3	699.0
50°	566.0	577.8	611.8	656.1	678.3
52.5°	529.0	542.3	585.2	632.5	654.7
55°	490.6	506.9	555.6	605.9	629.5
57.5°	450.7	468.5	526.1	579.3	604.4
60°	409.3	431.5	495.1	551.2	577.8
62.5°	366.5	393.1	464.0	521.7	549.7
65°	322.2	353.2	431.5	492.1	520.2
67.5°	276.3	317.7	399.0	462.5	490.6
70°	230.5	279.3	365.0	430.0	458.1
72.5°	187.7	243.8	331.0	391.6	397.5
75°	146.3	208.4	295.6	301.5	291.1
77.5°	109.4	172.9	243.8	217.2	215.8
80°	78.3	138.9	156.6	161.1	162.6
82.5°	51.7	104.9	102.0	104.9	103.4
85°	31.0	51.7	53.2	51.7	48.8
87.5°	14.8	19.2	14.8	13.3	11.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)