

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: P230408

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P230408
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25695)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ-LD5-55-SQP-UNV-L930-CD1-U
Description: CRUZE 2x4 LED TROFFER
WITH SQP LENS
Light Source: (168) 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3149.3 lumens
Efficiency: N/A
Efficacy: 68.8 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.31 / 1.42
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

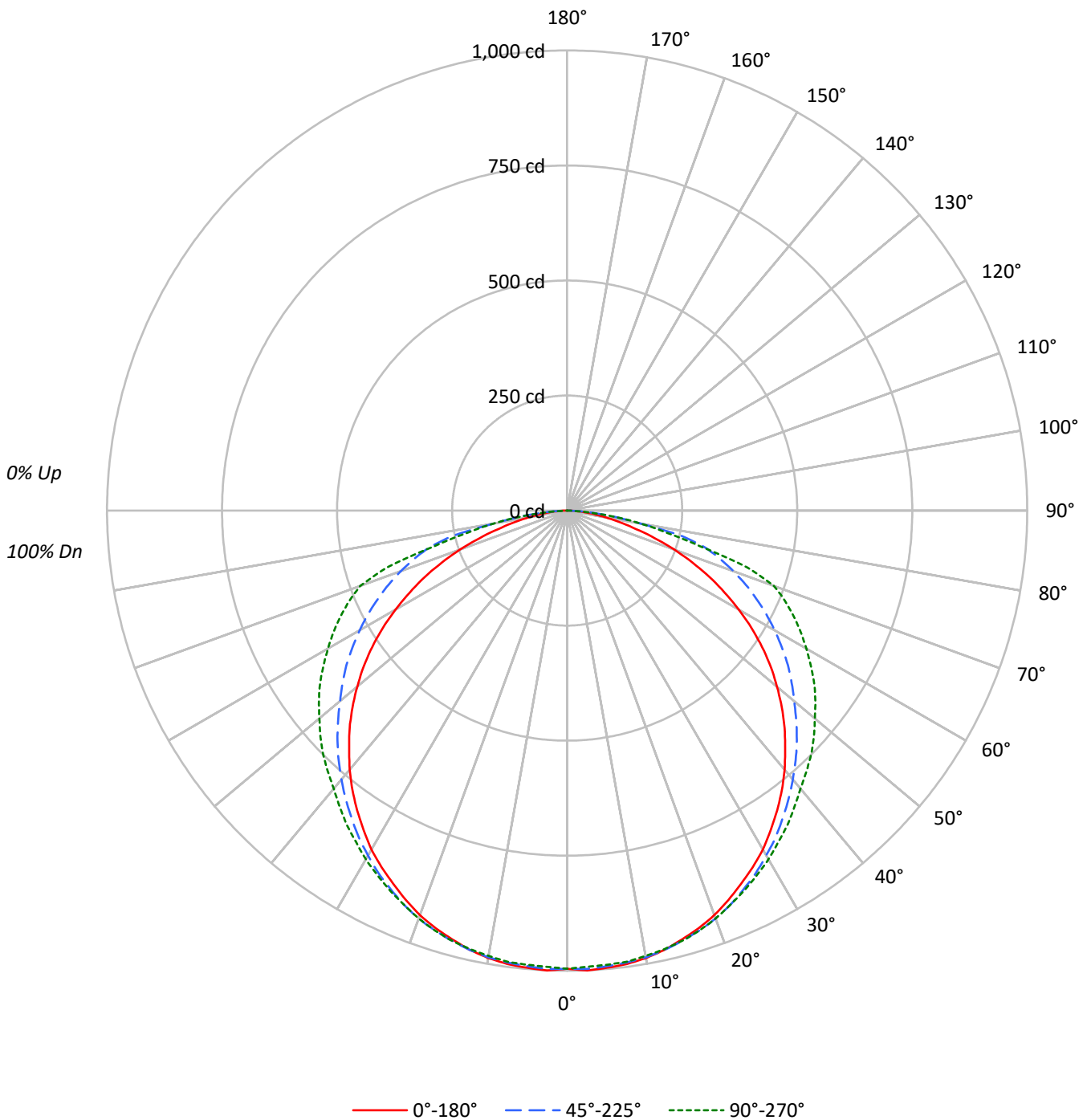
Input Watts (W): 45.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	63	58	56
4	81	68	59	52	79	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	62	49	40	34	47	39	34		45	39	33		44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30		42	35	30		40	34	29	28
9	55	41	33	27	54	41	33	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°	1340	1340	1340
5°	1347	1342	1338
10°	1349	1347	1342
15°	1344	1348	1348
20°	1339	1351	1351
25°	1328	1348	1352
30°	1322	1345	1360
35°	1307	1341	1371
40°	1291	1340	1386
45°	1272	1343	1427
50°	1246	1348	1471
55°	1213	1374	1538
60°	1160	1401	1615
65°	1088	1445	1730
70°	973	1510	1882
75°	803	1615	1556
80°	656	1247	1261
85°	528	829	778



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.6	3.0
10°-20°	272.8	8.7
20°-30°	417.0	13.2
30°-40°	510.0	16.2
40°-50°	545.7	17.3
50°-60°	522.6	16.6
60°-70°	442.0	14.0
70°-80°	280.2	8.9
80°-90°	64.5	2.0
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°	784.4	24.9
0°-40°	1294.4	41.1
0°-60°	2362.6	75.0
0°-90°	3149.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3149.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	996	996	996	996	996	
5°	997	992	994	992	991	95
15°	965	963	968	968	968	272
25°	895	895	908	911	911	413
35°	796	800	817	828	834	498
45°	669	680	706	735	750	515
55°	517	534	586	634	656	461
65°	342	374	454	516	543	337
75°	154	218	311	309	299	168
85°	34	52	54	49	50	41
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	995.6	995.6	995.6	995.6	995.6
2.5°	1000.5	995.6	997.2	995.6	992.3
5°	997.2	992.3	993.9	992.3	990.7
7.5°	993.9	989.1	990.7	989.1	989.1
10°	987.4	982.6	985.8	984.2	982.6
12.5°	977.7	974.4	977.7	976.0	976.0
15°	964.7	963.0	967.9	967.9	967.9
17.5°	951.6	950.0	956.5	956.5	956.5
20°	935.4	933.8	943.5	943.5	943.5
22.5°	915.9	914.2	927.2	927.2	927.2
25°	894.7	894.7	907.7	911.0	911.0
27.5°	873.6	873.6	888.2	893.1	893.1
30°	850.8	850.8	865.4	871.9	875.2
32.5°	823.1	826.4	842.7	850.8	854.0
35°	795.5	800.4	816.6	828.0	834.5
37.5°	766.2	771.1	790.6	803.6	811.7
40°	735.3	741.8	762.9	779.2	789.0
42.5°	701.1	710.9	735.3	756.4	769.5
45°	668.6	680.0	706.0	735.3	749.9
47.5°	632.8	645.8	675.1	712.5	727.2
50°	595.4	608.4	644.2	686.5	702.8
52.5°	558.0	572.6	614.9	660.5	680.0
55°	517.3	533.6	585.6	634.4	655.6
57.5°	475.0	494.5	553.1	605.2	627.9
60°	431.1	455.5	520.6	575.9	600.3
62.5°	385.5	414.8	488.0	546.6	572.6
65°	341.6	374.2	453.9	515.7	543.3
67.5°	294.4	335.1	419.7	486.4	512.4
70°	247.3	294.4	383.9	452.2	478.3
72.5°	200.1	257.0	348.1	409.9	409.9
75°	154.5	218.0	310.7	309.1	299.3
77.5°	117.1	182.2	255.4	218.0	219.6
80°	84.6	146.4	161.0	161.0	162.7
82.5°	56.9	112.2	104.1	102.5	105.7
85°	34.2	52.1	53.7	48.8	50.4
87.5°	16.3	17.9	14.6	9.8	9.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)