

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: P263823

Luminaire Tested: **24CZ-LD5-55-RDP-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263823
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-L92765-W2A1-U-3000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (336) 90 CRI LEDS TUNED AT 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3143.0 lumens
Efficiency: N/A
Efficacy: 79.1 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

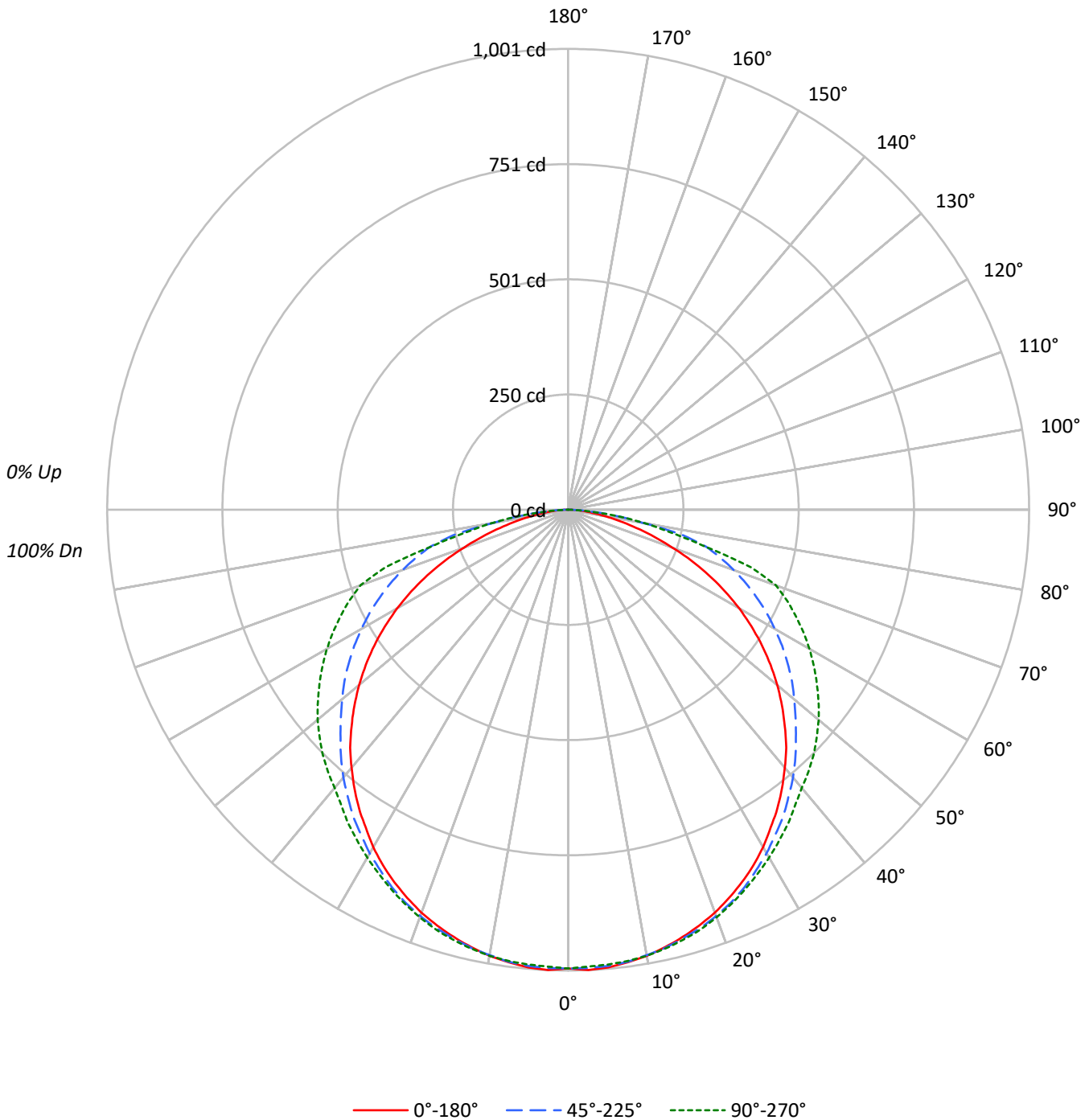
Input Watts (W): 39.711
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1341	1341	1341
5°	1348	1344	1339
10°	1344	1342	1344
15°	1338	1343	1347
20°	1334	1345	1349
25°	1325	1344	1351
30°	1315	1339	1356
35°	1301	1337	1367
40°	1285	1334	1386
45°	1266	1331	1434
50°	1240	1341	1486
55°	1205	1365	1546
60°	1153	1395	1628
65°	1074	1438	1734
70°	950	1503	1887
75°	796	1608	1585
80°	635	1271	1319
85°	502	860	789



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.5	3.0
10°-20°	272.0	8.7
20°-30°	415.4	13.2
30°-40°	507.9	16.2
40°-50°	543.6	17.3
50°-60°	521.4	16.6
60°-70°	440.3	14.0
70°-80°	281.4	9.0
80°-90°	66.5	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°	781.9	24.9
0°-40°	1289.8	41.0
0°-60°	2354.8	74.9
0°-90°	3143.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3143.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	996	996	996	996	996	
5°	998	992	995	993	992	95
15°	961	958	964	967	967	271
25°	893	891	905	908	910	411
35°	792	798	814	825	832	495
45°	665	676	699	732	754	513
55°	514	531	582	634	659	458
65°	337	370	452	515	545	333
75°	153	218	309	316	305	165
85°	32	54	56	54	51	39
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	996.4	996.4	996.4	996.4	996.4
2.5°	1001.0	994.8	996.4	996.4	993.3
5°	997.9	991.7	994.8	993.3	991.7
7.5°	991.7	987.1	990.2	990.2	988.6
10°	984.0	979.3	982.4	984.0	984.0
12.5°	973.2	970.1	974.7	974.7	976.2
15°	960.8	957.7	963.9	967.0	967.0
17.5°	946.8	945.3	953.0	954.6	956.1
20°	931.4	929.8	939.1	939.1	942.2
22.5°	912.8	911.3	923.6	923.6	926.7
25°	892.7	891.2	905.1	908.2	909.7
27.5°	871.0	869.5	883.4	888.1	891.2
30°	846.3	846.3	861.8	867.9	872.6
32.5°	818.4	823.1	837.0	846.3	852.5
35°	792.1	798.3	813.8	824.6	832.4
37.5°	762.7	768.9	785.9	799.9	809.2
40°	731.8	739.5	759.6	775.1	789.0
42.5°	700.9	708.6	730.2	753.5	772.0
45°	665.3	676.1	699.3	731.8	753.5
47.5°	629.7	640.5	669.9	710.1	731.8
50°	592.6	604.9	640.5	686.9	710.1
52.5°	553.9	567.8	612.7	662.2	685.4
55°	513.7	530.7	581.7	634.3	659.1
57.5°	471.9	490.4	550.8	606.5	632.8
60°	428.6	451.8	518.3	577.1	604.9
62.5°	383.7	411.5	485.8	546.1	575.5
65°	337.3	369.8	451.8	515.2	544.6
67.5°	289.3	332.6	417.7	484.3	513.7
70°	241.4	292.4	382.1	450.2	479.6
72.5°	196.5	255.3	346.6	410.0	446.2
75°	153.2	218.1	309.4	315.6	304.8
77.5°	114.5	181.0	255.3	227.4	225.9
80°	82.0	145.4	164.0	168.6	170.2
82.5°	54.1	109.8	106.8	109.8	108.3
85°	32.5	54.1	55.7	54.1	51.1
87.5°	15.5	20.1	15.5	13.9	12.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)