

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: P230521

Luminaire Tested: **24CZ-LD5-55SE-RDP-UNV-L935-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P230521
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-LD5-55SE-RDP-UNV-L935-CD1-U
Description: CRUZE 2x4 LED TROFFER
WITH RDP LENS
Light Source: (84) 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3141.7 lumens
Efficiency: N/A
Efficacy: 57.4 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

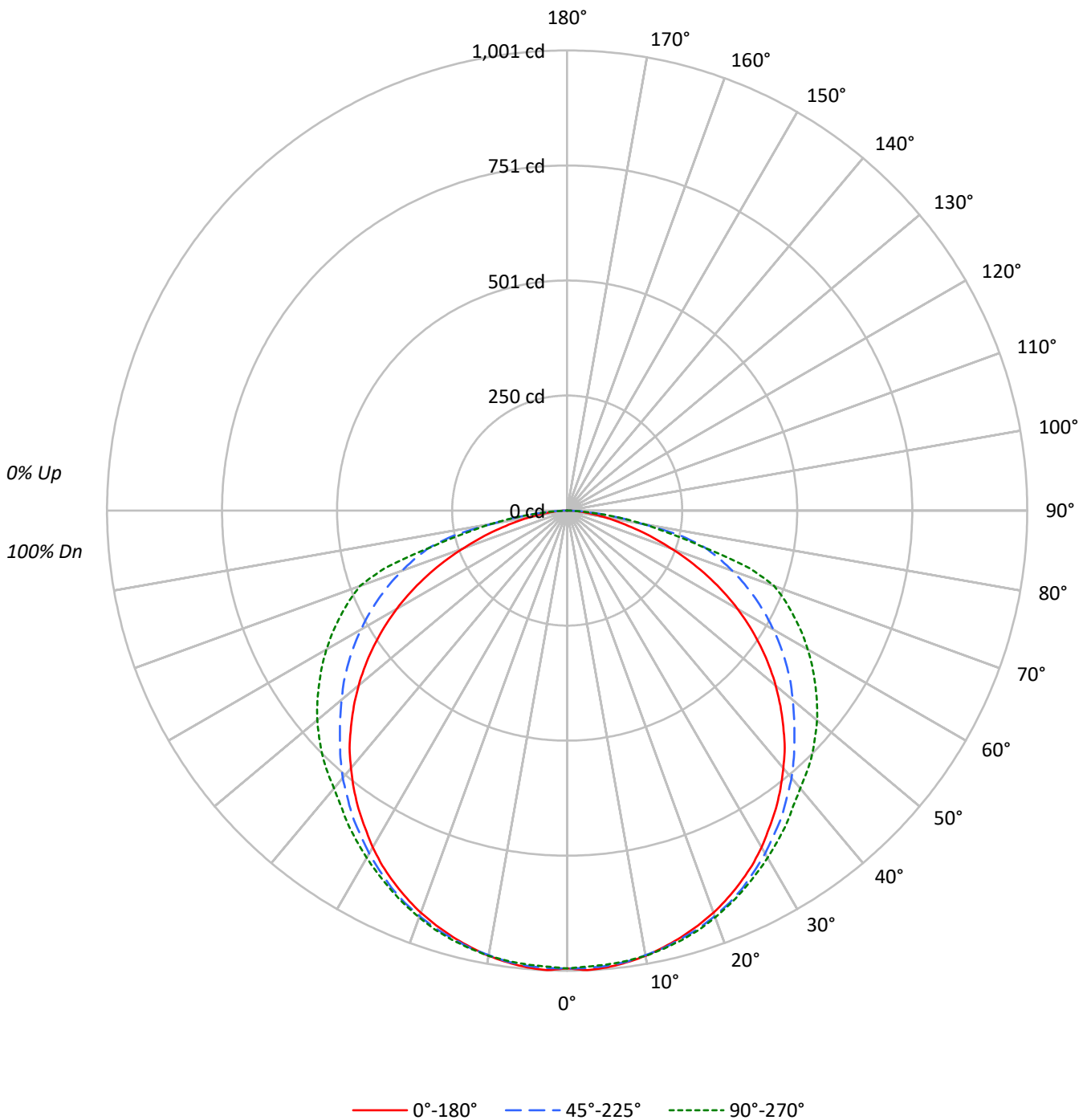
Input Watts (W): 54.69
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	108	103	98	94	105	101	97	93	96	93	90	92	90	87	89	87	84
2	98	89	82	76	95	87	80	75	83	78	73	80	75	71	77	73	70
3	89	78	69	62	86	76	68	62	73	66	60	70	64	59	67	62	58
4	81	68	59	52	78	67	58	52	64	57	51	62	56	50	60	54	50
5	74	61	51	45	72	60	51	44	57	50	44	55	49	43	54	48	43
6	68	55	45	39	66	54	45	38	52	44	38	50	43	38	48	42	37
7	63	49	40	34	61	48	40	34	47	39	34	45	38	33	44	38	33
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	29
9	55	41	33	27	53	41	32	27	39	32	27	38	32	27	37	31	27
10	51	38	30	24	50	37	30	24	36	29	24	35	29	24	35	28	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1340	1340	1340
5°	1347	1343	1339
10°	1344	1342	1344
15°	1338	1342	1346
20°	1333	1344	1349
25°	1325	1343	1350
30°	1314	1338	1355
35°	1301	1336	1367
40°	1285	1334	1385
45°	1265	1330	1433
50°	1240	1340	1486
55°	1204	1364	1545
60°	1153	1394	1627
65°	1073	1438	1733
70°	949	1503	1886
75°	796	1608	1584
80°	635	1270	1318
85°	502	860	787



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.5	3.0
10°-20°	271.9	8.7
20°-30°	415.2	13.2
30°-40°	507.7	16.2
40°-50°	543.4	17.3
50°-60°	521.2	16.6
60°-70°	440.1	14.0
70°-80°	281.3	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°	781.6	24.9
0°-40°	1289.2	41.0
0°-60°	2353.8	74.9
0°-90°	3141.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3141.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	996	996	996	996	996	
5°	998	991	994	993	991	95
15°	960	957	964	967	967	271
25°	892	891	905	908	909	411
35°	792	798	814	824	832	495
45°	665	676	699	732	753	513
55°	513	530	582	634	659	458
65°	337	370	452	515	544	332
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°	995.9	995.9	995.9	995.9	995.9
2.5°	1000.6	994.4	995.9	995.9	992.9
5°	997.5	991.3	994.4	992.9	991.3
7.5°	991.3	986.7	989.8	989.8	988.2
10°	983.6	978.9	982.0	983.6	983.6
12.5°	972.7	969.7	974.3	974.3	975.8
15°	960.4	957.3	963.5	966.6	966.6
17.5°	946.5	944.9	952.6	954.2	955.7
20°	931.0	929.4	938.7	938.7	941.8
22.5°	912.4	910.9	923.3	923.3	926.4
25°	892.3	890.8	904.7	907.8	909.3
27.5°	870.7	869.1	883.1	887.7	890.8
30°	845.9	845.9	861.4	867.6	872.2
32.5°	818.1	822.7	836.7	845.9	852.1
35°	791.8	798.0	813.5	824.3	832.0
37.5°	762.4	768.6	785.6	799.5	808.8
40°	731.5	739.2	759.3	774.8	788.7
42.5°	700.6	708.3	729.9	753.1	771.7
45°	665.0	675.8	699.0	731.5	753.1
47.5°	629.4	640.3	669.6	709.8	731.5
50°	592.3	604.7	640.3	686.6	709.8
52.5°	553.6	567.6	612.4	661.9	685.1
55°	513.4	530.4	581.5	634.1	658.8
57.5°	471.7	490.2	550.6	606.2	632.5
60°	428.4	451.6	518.1	576.8	604.7
62.5°	383.5	411.4	485.6	545.9	575.3
65°	337.1	369.6	451.6	515.0	544.4
67.5°	289.2	332.5	417.6	484.1	513.4
70°	241.3	292.3	382.0	450.0	479.4
72.5°	196.4	255.2	346.4	409.8	416.0
75°	153.1	218.1	309.3	315.5	304.7
77.5°	114.4	180.9	255.2	227.3	225.8
80°	82.0	145.4	163.9	168.6	170.1
82.5°	54.1	109.8	106.7	109.8	108.3
85°	32.5	54.1	55.7	54.1	51.0
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)