

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: P276927

Luminaire Tested: **24CZ2-55HE-RDP-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276927
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1808-918-19)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ2-55HE-RDP-UNV-L82765-W2A1-U-2700K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (336) 80 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3240.4 lumens
Efficiency: N/A
Efficacy: 80.8 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

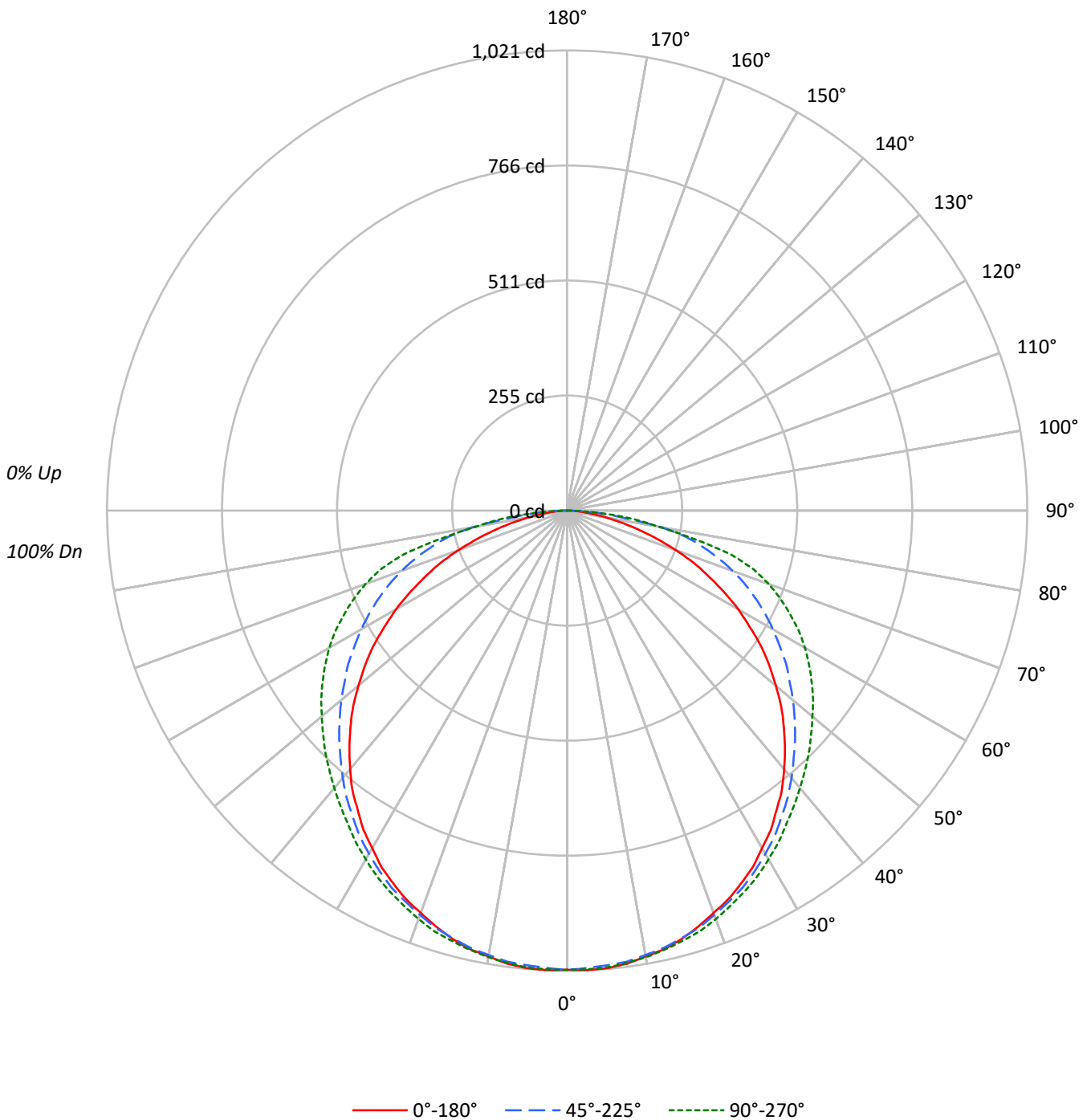
Input Watts (W): 40.083
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100	96	92	96	93	89	92	89	87	88	86	84	82
2	97	89	81	75	95	87	80	74	83	77	72	80	75	71	77	73	69	67
3	88	77	68	62	86	76	67	61	72	66	60	70	64	59	67	62	58	56
4	81	68	59	52	78	67	58	51	64	57	51	62	55	50	59	54	49	47
5	74	60	51	44	72	59	51	44	57	49	43	55	48	43	53	47	42	40
6	68	54	45	38	66	53	45	38	51	44	38	50	43	37	48	42	37	35
7	63	49	40	34	61	48	40	34	47	39	33	45	38	33	44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30	41	34	29	40	34	29	27
9	55	41	33	27	53	40	32	27	39	32	27	38	31	26	37	31	26	24
10	51	38	30	24	50	37	29	24	36	29	24	35	29	24	34	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1371	1371	1371
5°	1376	1368	1374
10°	1372	1368	1375
15°	1370	1368	1377
20°	1360	1367	1381
25°	1355	1370	1384
30°	1343	1366	1388
35°	1331	1362	1394
40°	1316	1361	1411
45°	1294	1361	1443
50°	1265	1369	1487
55°	1233	1391	1553
60°	1181	1419	1639
65°	1105	1469	1740
70°	1006	1537	1872
75°	852	1621	1955
80°	673	1632	1581
85°	496	1241	1389



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.7	3.0
10°-20°	278.2	8.6
20°-30°	425.4	13.1
30°-40°	520.1	16.0
40°-50°	554.3	17.1
50°-60°	530.0	16.4
60°-70°	449.0	13.9
70°-80°	301.7	9.3
80°-90°	85.1	2.6
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°	800.3	24.7
0°-40°	1320.3	40.7
0°-60°	2404.6	74.2
0°-90°	3240.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3240.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1019	1019	1019	1019	1019	
5°	1019	1017	1013	1017	1017	97
15°	984	984	982	990	988	277
25°	913	916	923	931	932	421
35°	810	816	829	845	849	507
45°	680	691	715	746	759	524
55°	526	545	593	640	662	468
65°	347	382	461	522	546	345
75°	164	223	312	365	376	176
85°	32	66	80	87	90	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1019.0	1019.0	1019.0	1019.0	1019.0
2.5°	1020.6	1020.6	1015.8	1019.0	1019.0
5°	1019.0	1017.4	1012.6	1017.4	1017.4
7.5°	1014.2	1012.6	1009.4	1014.2	1012.6
10°	1004.5	1004.5	1001.3	1006.2	1006.2
12.5°	996.5	994.9	993.3	999.7	998.1
15°	983.7	983.7	982.0	990.1	988.5
17.5°	967.6	969.2	970.8	977.2	978.8
20°	949.9	953.1	954.7	964.4	964.4
22.5°	933.8	935.4	938.6	948.3	948.3
25°	912.9	916.1	922.6	930.6	932.2
27.5°	892.0	893.6	901.7	912.9	914.5
30°	864.7	869.5	879.2	892.0	893.6
32.5°	840.6	845.4	856.7	869.5	872.7
35°	810.1	816.5	829.4	845.4	848.6
37.5°	782.7	787.6	803.6	821.3	826.1
40°	749.0	758.6	774.7	795.6	803.6
42.5°	715.2	724.9	744.2	771.5	781.1
45°	679.9	691.1	715.2	745.8	758.6
47.5°	644.5	657.4	684.7	720.1	734.5
50°	604.3	620.4	654.2	694.3	710.4
52.5°	565.8	585.0	622.0	667.0	687.9
55°	525.6	544.9	593.1	639.7	662.2
57.5°	480.6	506.3	559.3	612.4	636.5
60°	438.8	462.9	527.2	585.0	609.2
62.5°	393.8	425.9	495.0	556.1	580.2
65°	347.2	382.5	461.3	522.4	546.5
67.5°	305.4	344.0	427.5	488.6	512.7
70°	255.6	303.8	390.6	451.6	475.8
72.5°	208.9	262.0	352.0	411.5	434.0
75°	163.9	223.4	311.8	364.9	376.1
77.5°	122.2	184.8	270.0	292.5	284.5
80°	86.8	147.9	210.6	199.3	204.1
82.5°	56.3	112.5	130.2	147.9	152.7
85°	32.1	65.9	80.4	86.8	90.0
87.5°	14.5	24.1	32.1	32.1	30.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)