

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: P277043

Luminaire Tested: **24CZ2-40HE-RDP-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277043
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: 24CZ2-40HE-RDP-UNV-L92765-W2A1-U-6500K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (336) 90 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2459.7 lumens
Efficiency: N/A
Efficacy: 83.2 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

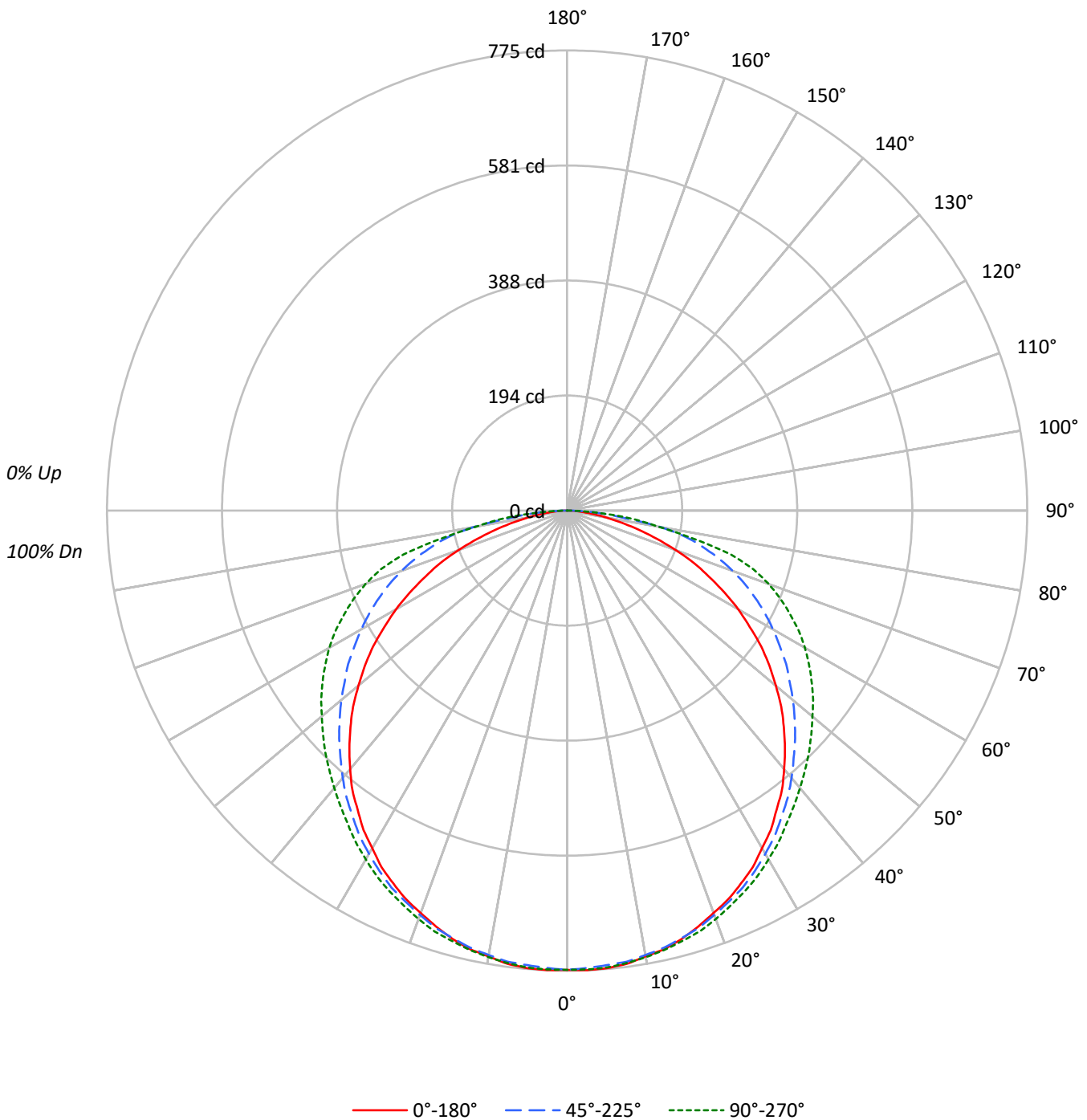
Input Watts (W): 29.574
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1041	1041	1041
5°	1045	1038	1043
10°	1042	1038	1044
15°	1040	1038	1045
20°	1032	1038	1048
25°	1029	1040	1050
30°	1020	1037	1054
35°	1010	1034	1058
40°	999	1033	1071
45°	982	1033	1096
50°	960	1039	1129
55°	936	1056	1179
60°	896	1077	1244
65°	839	1115	1321
70°	763	1166	1421
75°	647	1231	1484
80°	511	1238	1200
85°	377	942	1054



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.4	3.0
10°-20°	211.2	8.6
20°-30°	322.9	13.1
30°-40°	394.8	16.0
40°-50°	420.7	17.1
50°-60°	402.3	16.4
60°-70°	340.8	13.9
70°-80°	229.0	9.3
80°-90°	64.6	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°	607.5	24.7
0°-40°	1002.2	40.7
0°-60°	1825.3	74.2
0°-90°	2459.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2459.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	774	774	774	774	774	
5°	774	772	769	772	772	73
15°	747	747	746	752	750	211
25°	693	695	700	706	708	319
35°	615	620	630	642	644	385
45°	516	525	543	566	576	398
55°	399	414	450	486	503	355
65°	264	290	350	396	415	262
75°	124	170	237	277	286	133
85°	24	50	61	66	68	30
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	773.5	773.5	773.5	773.5	773.5
2.5°	774.7	774.7	771.1	773.5	773.5
5°	773.5	772.3	768.6	772.3	772.3
7.5°	769.9	768.6	766.2	769.9	768.6
10°	762.5	762.5	760.1	763.8	763.8
12.5°	756.4	755.2	754.0	758.9	757.7
15°	746.7	746.7	745.5	751.6	750.3
17.5°	734.5	735.7	736.9	741.8	743.0
20°	721.1	723.5	724.7	732.0	732.0
22.5°	708.8	710.1	712.5	719.8	719.8
25°	693.0	695.4	700.3	706.4	707.6
27.5°	677.1	678.3	684.4	693.0	694.2
30°	656.4	660.0	667.4	677.1	678.3
32.5°	638.1	641.7	650.3	660.0	662.5
35°	614.9	619.8	629.5	641.7	644.2
37.5°	594.2	597.8	610.0	623.4	627.1
40°	568.5	575.9	588.1	603.9	610.0
42.5°	542.9	550.2	564.9	585.6	592.9
45°	516.1	524.6	542.9	566.1	575.9
47.5°	489.2	499.0	519.7	546.6	557.6
50°	458.7	470.9	496.6	527.1	539.3
52.5°	429.5	444.1	472.2	506.3	522.2
55°	399.0	413.6	450.2	485.6	502.7
57.5°	364.8	384.3	424.6	464.8	483.1
60°	333.1	351.4	400.2	444.1	462.4
62.5°	298.9	323.3	375.8	422.1	440.4
65°	263.5	290.4	350.2	396.5	414.8
67.5°	231.8	261.1	324.5	370.9	389.2
70°	194.0	230.6	296.5	342.8	361.1
72.5°	158.6	198.9	267.2	312.3	329.4
75°	124.4	169.6	236.7	277.0	285.5
77.5°	92.7	140.3	205.0	222.0	215.9
80°	65.9	112.2	159.8	151.3	154.9
82.5°	42.7	85.4	98.8	112.2	115.9
85°	24.4	50.0	61.0	65.9	68.3
87.5°	11.0	18.3	24.4	24.4	23.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)