

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: P277075

Luminaire Tested: **24CZ2-60HE-RDP-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277075
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: 24CZ2-60HE-RDP-UNV-L92765-W2A1-U-4500K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (336) 90 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3477.1 lumens
Efficiency: N/A
Efficacy: 77.1 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

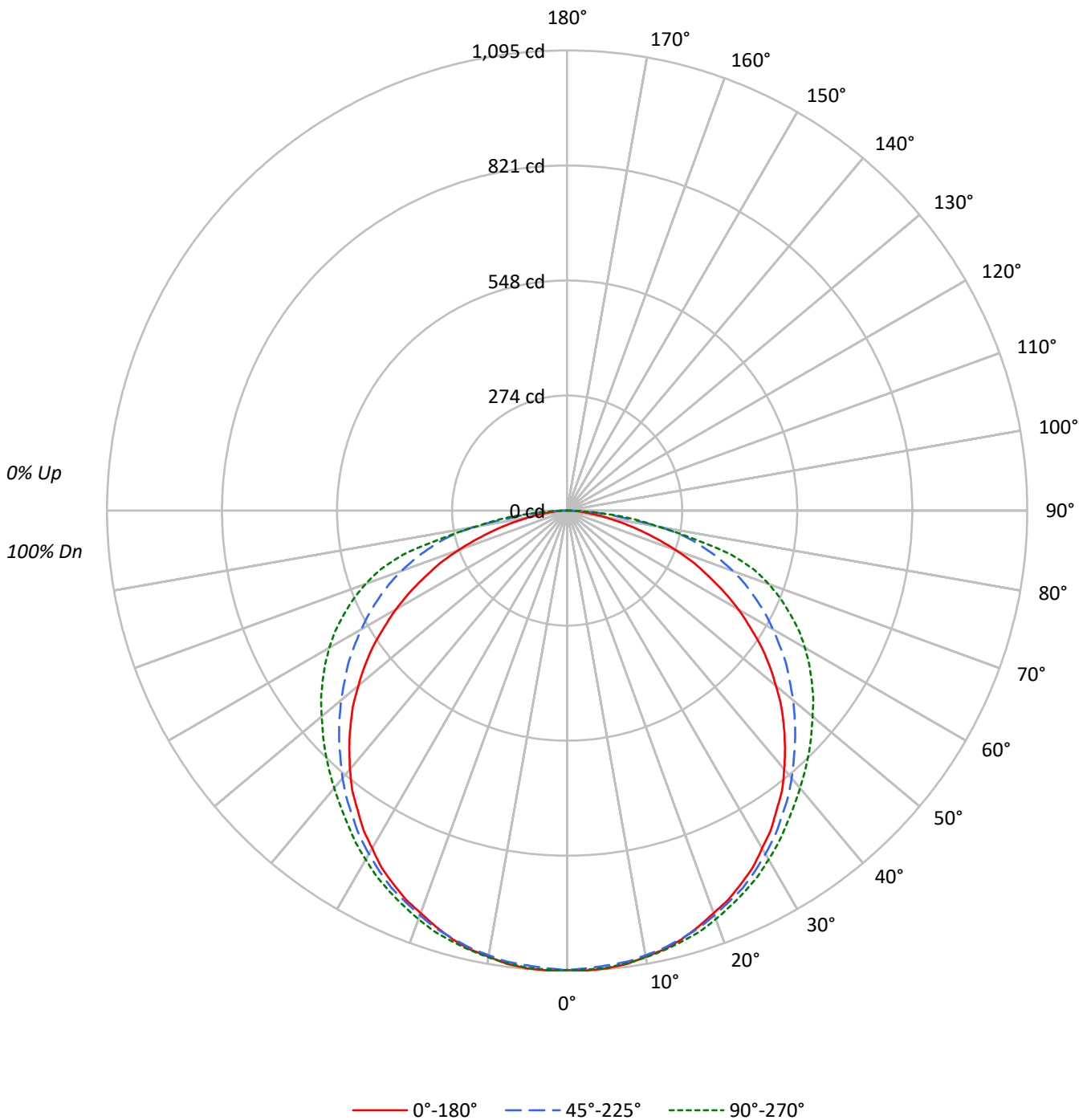
Input Watts (W): 45.105
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1471	1471	1471
5°	1477	1467	1474
10°	1473	1468	1475
15°	1470	1468	1478
20°	1459	1467	1482
25°	1454	1470	1485
30°	1442	1466	1490
35°	1428	1462	1496
40°	1412	1460	1515
45°	1388	1460	1549
50°	1357	1469	1596
55°	1323	1493	1667
60°	1267	1522	1759
65°	1186	1576	1867
70°	1079	1649	2008
75°	914	1739	2098
80°	721	1750	1697
85°	533	1331	1491



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.7	3.0
10°-20°	298.5	8.6
20°-30°	456.5	13.1
30°-40°	558.0	16.0
40°-50°	594.8	17.1
50°-60°	568.7	16.4
60°-70°	481.7	13.9
70°-80°	323.8	9.3
80°-90°	91.3	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°	858.7	24.7
0°-40°	1416.8	40.7
0°-60°	2580.2	74.2
0°-90°	3477.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3477.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1093	1093	1093	1093	1093	
5°	1093	1092	1086	1092	1092	104
15°	1056	1056	1054	1062	1061	298
25°	980	983	990	999	1000	452
35°	869	876	890	907	911	545
45°	730	742	768	800	814	563
55°	564	585	636	686	711	502
65°	372	410	495	560	586	370
75°	176	240	335	392	404	188
85°	34	71	86	93	97	43
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1093.4	1093.4	1093.4	1093.4	1093.4
2.5°	1095.2	1095.2	1090.0	1093.4	1093.4
5°	1093.4	1091.7	1086.5	1091.7	1091.7
7.5°	1088.3	1086.5	1083.1	1088.3	1086.5
10°	1077.9	1077.9	1074.5	1079.6	1079.6
12.5°	1069.3	1067.6	1065.8	1072.7	1071.0
15°	1055.5	1055.5	1053.8	1062.4	1060.7
17.5°	1038.3	1040.0	1041.7	1048.6	1050.3
20°	1019.3	1022.7	1024.5	1034.8	1034.8
22.5°	1002.0	1003.8	1007.2	1017.6	1017.6
25°	979.6	983.1	990.0	998.6	1000.3
27.5°	957.2	958.9	967.5	979.6	981.3
30°	927.9	933.0	943.4	957.2	958.9
32.5°	902.0	907.2	919.2	933.0	936.5
35°	869.2	876.1	889.9	907.2	910.6
37.5°	839.9	845.1	862.3	881.3	886.5
40°	803.7	814.0	831.3	853.7	862.3
42.5°	767.5	777.8	798.5	827.8	838.2
45°	729.5	741.6	767.5	800.2	814.0
47.5°	691.6	705.4	734.7	772.7	788.2
50°	648.5	665.7	701.9	745.1	762.3
52.5°	607.1	627.8	667.4	715.7	738.2
55°	564.0	584.7	636.4	686.4	710.6
57.5°	515.7	543.3	600.2	657.1	683.0
60°	470.8	496.7	565.7	627.8	653.7
62.5°	422.5	457.0	531.2	596.7	622.6
65°	372.5	410.5	495.0	560.5	586.4
67.5°	327.7	369.1	458.8	524.3	550.2
70°	274.2	326.0	419.1	484.6	510.5
72.5°	224.2	281.1	377.7	441.5	465.7
75°	175.9	239.7	334.6	391.5	403.6
77.5°	131.1	198.3	289.7	313.9	305.3
80°	93.1	158.7	225.9	213.9	219.0
82.5°	60.4	120.7	139.7	158.7	163.8
85°	34.5	70.7	86.2	93.1	96.6
87.5°	15.5	25.9	34.5	34.5	32.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)