

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: P277080

Luminaire Tested: **24CZ2-65HE-RDP-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277080
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: 24CZ2-65HE-RDP-UNV-L92765-W2A1-U-2700K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (336) 90 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3258.8 lumens
Efficiency: N/A
Efficacy: 66.7 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

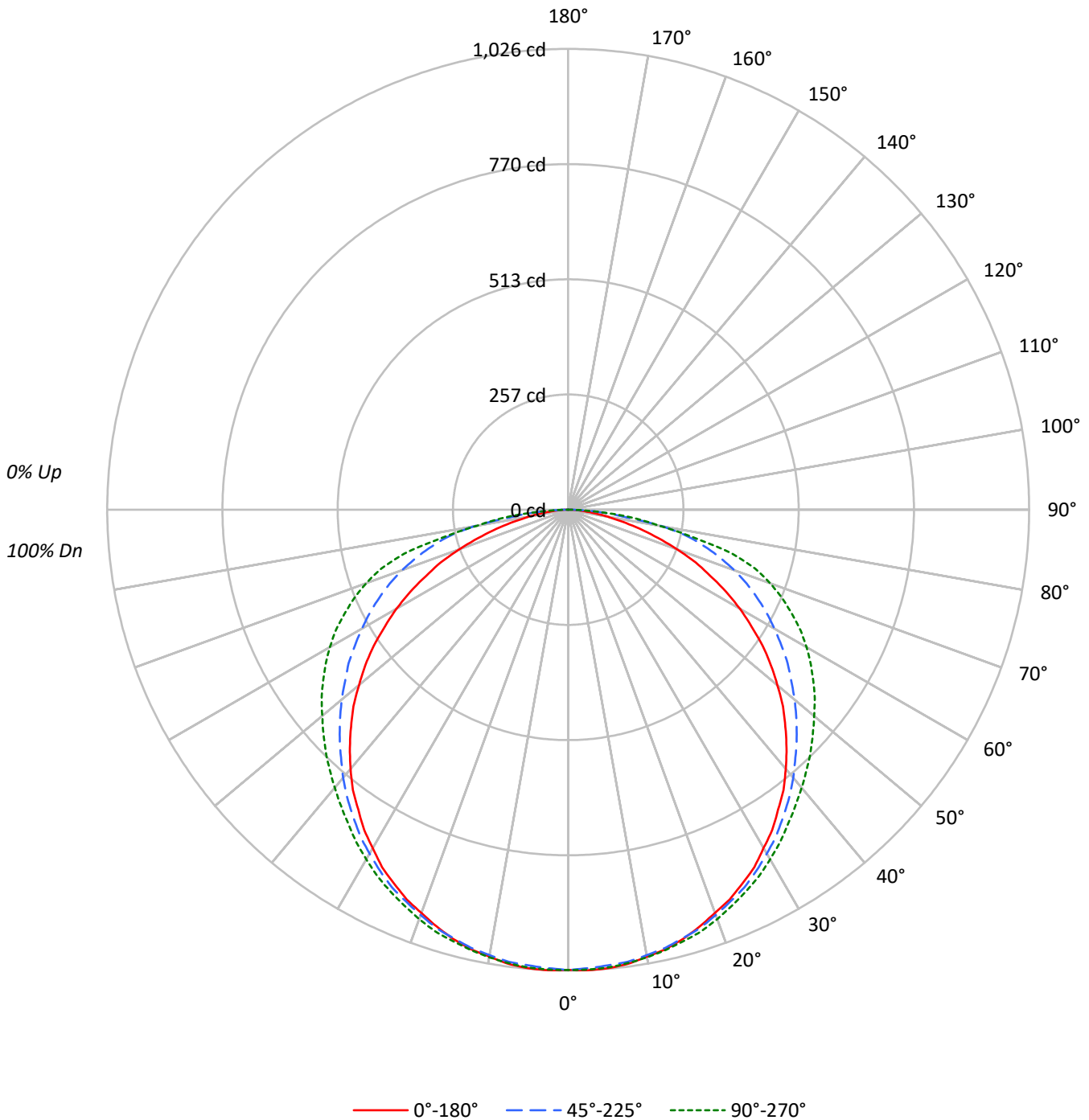
Input Watts (W): 48.825
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1379	1379	1379
5°	1384	1375	1382
10°	1380	1376	1383
15°	1378	1376	1385
20°	1368	1375	1389
25°	1363	1377	1392
30°	1351	1374	1396
35°	1338	1370	1402
40°	1323	1368	1420
45°	1301	1369	1452
50°	1272	1377	1496
55°	1240	1399	1562
60°	1188	1427	1648
65°	1111	1477	1750
70°	1011	1545	1882
75°	857	1630	1966
80°	676	1641	1591
85°	499	1247	1397



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.2	3.0
10°-20°	279.8	8.6
20°-30°	427.8	13.1
30°-40°	523.0	16.0
40°-50°	557.4	17.1
50°-60°	533.0	16.4
60°-70°	451.5	13.9
70°-80°	303.5	9.3
80°-90°	85.6	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°	804.8	24.7
0°-40°	1327.9	40.7
0°-60°	2418.3	74.2
0°-90°	3258.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3258.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1025	1025	1025	1025	1025	
5°	1025	1023	1018	1023	1023	97
15°	989	989	988	996	994	279
25°	918	921	928	936	938	423
35°	815	821	834	850	854	510
45°	684	695	719	750	763	527
55°	529	548	596	643	666	471
65°	349	385	464	525	550	347
75°	165	225	314	367	378	177
85°	32	66	81	87	90	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1024.8	1024.8	1024.8	1024.8	1024.8
2.5°	1026.4	1026.4	1021.6	1024.8	1024.8
5°	1024.8	1023.2	1018.3	1023.2	1023.2
7.5°	1020.0	1018.3	1015.1	1020.0	1018.3
10°	1010.3	1010.3	1007.0	1011.9	1011.9
12.5°	1002.2	1000.6	999.0	1005.4	1003.8
15°	989.3	989.3	987.6	995.7	994.1
17.5°	973.1	974.7	976.3	982.8	984.4
20°	955.3	958.5	960.2	969.9	969.9
22.5°	939.1	940.8	944.0	953.7	953.7
25°	918.1	921.4	927.8	935.9	937.5
27.5°	897.1	898.7	906.8	918.1	919.7
30°	869.6	874.5	884.2	897.1	898.7
32.5°	845.4	850.2	861.6	874.5	877.7
35°	814.7	821.1	834.1	850.2	853.5
37.5°	787.2	792.0	808.2	826.0	830.8
40°	753.3	763.0	779.1	800.1	808.2
42.5°	719.3	729.0	748.4	775.9	785.6
45°	683.7	695.1	719.3	750.0	763.0
47.5°	648.2	661.1	688.6	724.2	738.7
50°	607.8	623.9	657.9	698.3	714.5
52.5°	569.0	588.4	625.6	670.8	691.8
55°	528.6	548.0	596.5	643.3	666.0
57.5°	483.3	509.2	562.5	615.9	640.1
60°	441.3	465.5	530.2	588.4	612.6
62.5°	396.0	428.4	497.9	559.3	583.5
65°	349.1	384.7	463.9	525.3	549.6
67.5°	307.1	345.9	430.0	491.4	515.6
70°	257.0	305.5	392.8	454.2	478.5
72.5°	210.1	263.5	354.0	413.8	436.4
75°	164.9	224.7	313.6	366.9	378.2
77.5°	122.8	185.9	271.6	294.2	286.1
80°	87.3	148.7	211.8	200.4	205.3
82.5°	56.6	113.1	130.9	148.7	153.6
85°	32.3	66.3	80.8	87.3	90.5
87.5°	14.5	24.2	32.3	32.3	30.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)