

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: P277076

Luminaire Tested: **24CZ2-60HE-RDP-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277076
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-5000K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (336) 90 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3547.7 lumens
Efficiency: N/A
Efficacy: 78.3 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

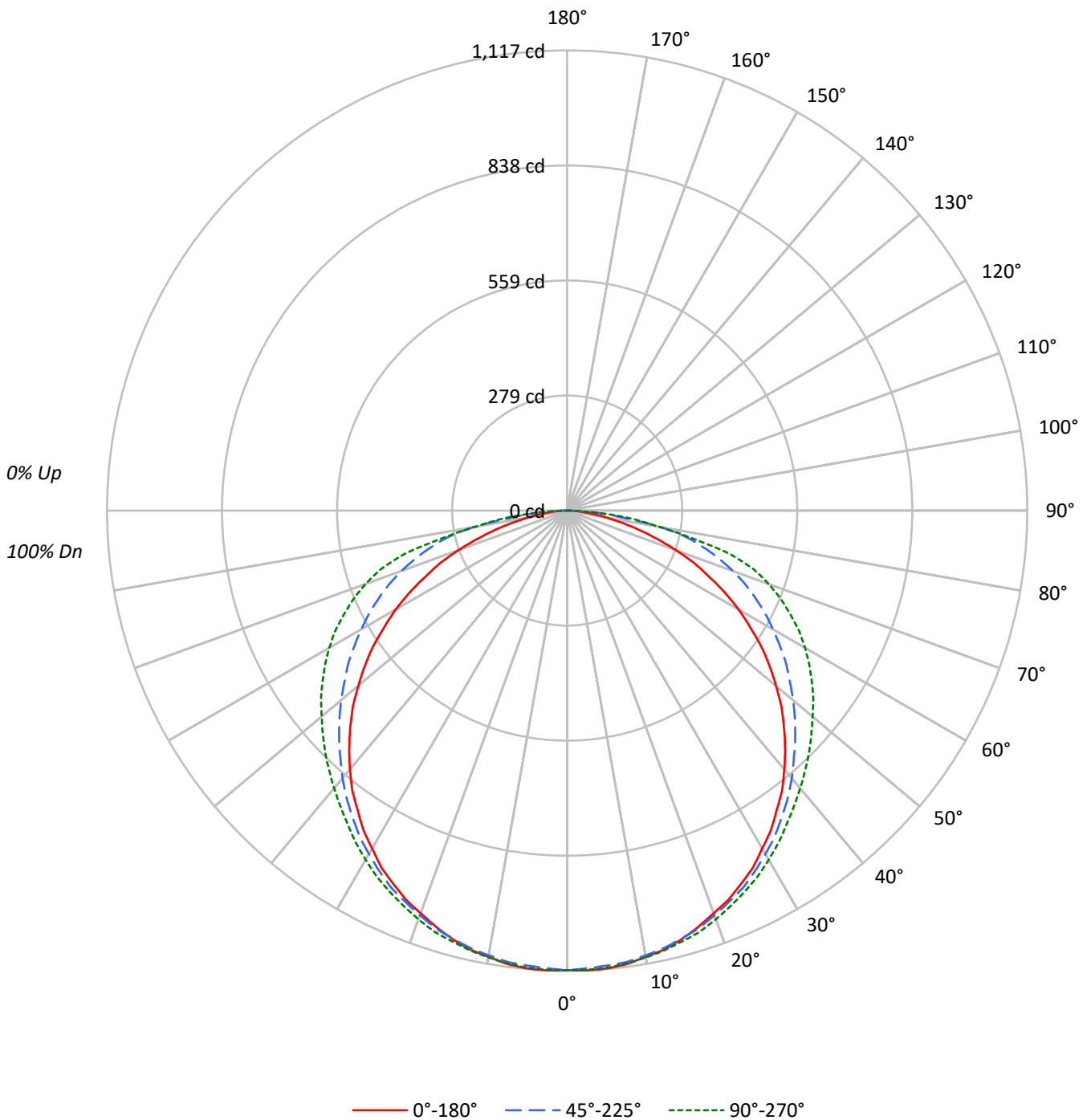
Input Watts (W): 45.291
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1501	1501	1501
5°	1507	1497	1504
10°	1503	1498	1505
15°	1500	1498	1507
20°	1489	1497	1512
25°	1484	1500	1515
30°	1471	1496	1520
35°	1457	1491	1526
40°	1440	1490	1545
45°	1416	1490	1580
50°	1385	1499	1628
55°	1350	1523	1701
60°	1293	1553	1795
65°	1210	1608	1905
70°	1101	1682	2049
75°	933	1775	2141
80°	736	1786	1732
85°	543	1359	1521



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.8	3.0
10°-20°	304.6	8.6
20°-30°	465.8	13.1
30°-40°	569.4	16.0
40°-50°	606.9	17.1
50°-60°	580.2	16.4
60°-70°	491.5	13.9
70°-80°	330.4	9.3
80°-90°	93.2	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°	876.2	24.7
0°-40°	1445.6	40.7
0°-60°	2632.6	74.2
0°-90°	3547.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3547.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1116	1116	1116	1116	1116	
5°	1116	1114	1109	1114	1114	106
15°	1077	1077	1075	1084	1082	304
25°	1000	1003	1010	1019	1021	461
35°	887	894	908	926	929	556
45°	744	757	783	816	831	574
55°	575	596	649	700	725	513
65°	380	419	505	572	598	377
75°	180	245	341	400	412	192
85°	35	72	88	95	98	44
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1115.7	1115.7	1115.7	1115.7	1115.7
2.5°	1117.4	1117.4	1112.1	1115.7	1115.7
5°	1115.7	1113.9	1108.6	1113.9	1113.9
7.5°	1110.4	1108.6	1105.1	1110.4	1108.6
10°	1099.8	1099.8	1096.3	1101.6	1101.6
12.5°	1091.0	1089.3	1087.5	1094.5	1092.8
15°	1076.9	1076.9	1075.2	1084.0	1082.2
17.5°	1059.3	1061.1	1062.9	1069.9	1071.7
20°	1040.0	1043.5	1045.3	1055.8	1055.8
22.5°	1022.4	1024.1	1027.7	1038.2	1038.2
25°	999.5	1003.0	1010.1	1018.9	1020.6
27.5°	976.6	978.4	987.2	999.5	1001.3
30°	946.7	952.0	962.6	976.6	978.4
32.5°	920.3	925.6	937.9	952.0	955.5
35°	886.9	893.9	908.0	925.6	929.1
37.5°	857.0	862.3	879.9	899.2	904.5
40°	820.0	830.6	848.2	871.1	879.9
42.5°	783.1	793.6	814.7	844.7	855.2
45°	744.4	756.7	783.1	816.5	830.6
47.5°	705.6	719.7	749.6	788.3	804.2
50°	661.6	679.2	716.2	760.2	777.8
52.5°	619.4	640.5	681.0	730.3	753.2
55°	575.4	596.5	649.3	700.4	725.0
57.5°	526.2	554.3	612.4	670.4	696.8
60°	480.4	506.8	577.2	640.5	666.9
62.5°	431.1	466.3	542.0	608.9	635.3
65°	380.1	418.8	505.0	571.9	598.3
67.5°	334.3	376.6	468.1	534.9	561.3
70°	279.8	332.6	427.6	494.5	520.9
72.5°	228.8	286.8	385.4	450.5	475.1
75°	179.5	244.6	341.4	399.5	411.8
77.5°	133.7	202.4	295.6	320.3	311.5
80°	95.0	161.9	230.5	218.2	223.5
82.5°	61.6	123.2	142.5	161.9	167.2
85°	35.2	72.1	88.0	95.0	98.5
87.5°	15.8	26.4	35.2	35.2	33.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)