

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: P277077

Luminaire Tested: **24CZ2-60HE-RDP-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277077
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-5500K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (336) 90 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3602.4 lumens
Efficiency: N/A
Efficacy: 79.2 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

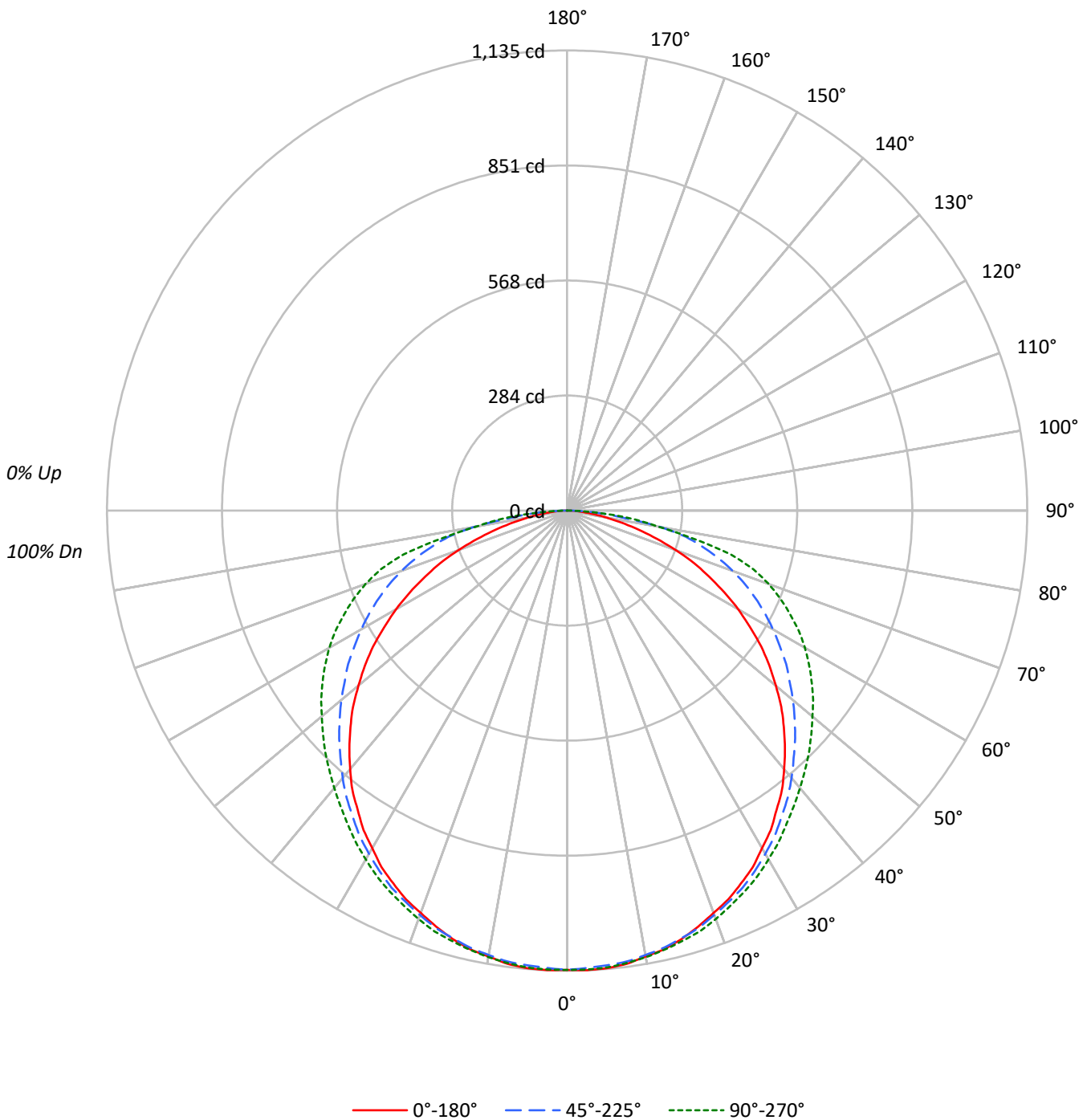
Input Watts (W): 45.477
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1524	1524	1524
5°	1530	1520	1528
10°	1526	1521	1528
15°	1523	1521	1531
20°	1512	1520	1535
25°	1507	1523	1539
30°	1494	1519	1544
35°	1479	1514	1550
40°	1463	1513	1569
45°	1438	1513	1605
50°	1406	1522	1653
55°	1371	1547	1727
60°	1313	1577	1822
65°	1229	1633	1934
70°	1118	1708	2081
75°	948	1802	2174
80°	748	1814	1758
85°	551	1379	1545



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.5	3.0
10°-20°	309.3	8.6
20°-30°	472.9	13.1
30°-40°	578.2	16.0
40°-50°	616.2	17.1
50°-60°	589.2	16.4
60°-70°	499.1	13.9
70°-80°	335.4	9.3
80°-90°	94.6	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°	889.7	24.7
0°-40°	1467.9	40.7
0°-60°	2673.2	74.2
0°-90°	3602.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3602.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1133	1133	1133	1133	1133	
5°	1133	1131	1126	1131	1131	108
15°	1094	1094	1092	1101	1099	308
25°	1015	1018	1026	1035	1036	468
35°	901	908	922	940	944	564
45°	756	768	795	829	843	583
55°	584	606	659	711	736	520
65°	386	425	513	581	608	383
75°	182	248	347	406	418	195
85°	36	73	89	96	100	44
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1132.9	1132.9	1132.9	1132.9	1132.9
2.5°	1134.6	1134.6	1129.3	1132.9	1132.9
5°	1132.9	1131.1	1125.7	1131.1	1131.1
7.5°	1127.5	1125.7	1122.1	1127.5	1125.7
10°	1116.8	1116.8	1113.2	1118.6	1118.6
12.5°	1107.8	1106.1	1104.3	1111.4	1109.6
15°	1093.5	1093.5	1091.8	1100.7	1098.9
17.5°	1075.7	1077.5	1079.3	1086.4	1088.2
20°	1056.0	1059.6	1061.4	1072.1	1072.1
22.5°	1038.2	1039.9	1043.5	1054.2	1054.2
25°	1014.9	1018.5	1025.6	1034.6	1036.4
27.5°	991.7	993.5	1002.4	1014.9	1016.7
30°	961.3	966.7	977.4	991.7	993.5
32.5°	934.5	939.9	952.4	966.7	970.3
35°	900.6	907.7	922.0	939.9	943.5
37.5°	870.2	875.6	893.4	913.1	918.4
40°	832.7	843.4	861.3	884.5	893.4
42.5°	795.1	805.9	827.3	857.7	868.4
45°	755.8	768.3	795.1	829.1	843.4
47.5°	716.5	730.8	761.2	800.5	816.6
50°	671.9	689.7	727.2	771.9	789.8
52.5°	629.0	650.4	691.5	741.5	764.8
55°	584.3	605.7	659.3	711.2	736.2
57.5°	534.3	562.9	621.8	680.8	707.6
60°	487.8	514.6	586.1	650.4	677.2
62.5°	437.8	473.5	550.3	618.2	645.0
65°	386.0	425.3	512.8	580.7	607.5
67.5°	339.5	382.4	475.3	543.2	570.0
70°	284.1	337.7	434.2	502.1	528.9
72.5°	232.3	291.3	391.3	457.4	482.4
75°	182.3	248.4	346.6	405.6	418.1
77.5°	135.8	205.5	300.2	325.2	316.3
80°	96.5	164.4	234.1	221.6	226.9
82.5°	62.5	125.1	144.7	164.4	169.7
85°	35.7	73.3	89.3	96.5	100.1
87.5°	16.1	26.8	35.7	35.7	33.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)