

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: P261292

Luminaire Tested: **24CZ-LD5-45-S-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P261292
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25694)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ-LD5-45-S-UNV-L92765-W2A1-U-6500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (336) 90 CRI LEDS TUNED AT 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4342.0 lumens
Efficiency: N/A
Efficacy: 131.9 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.23 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

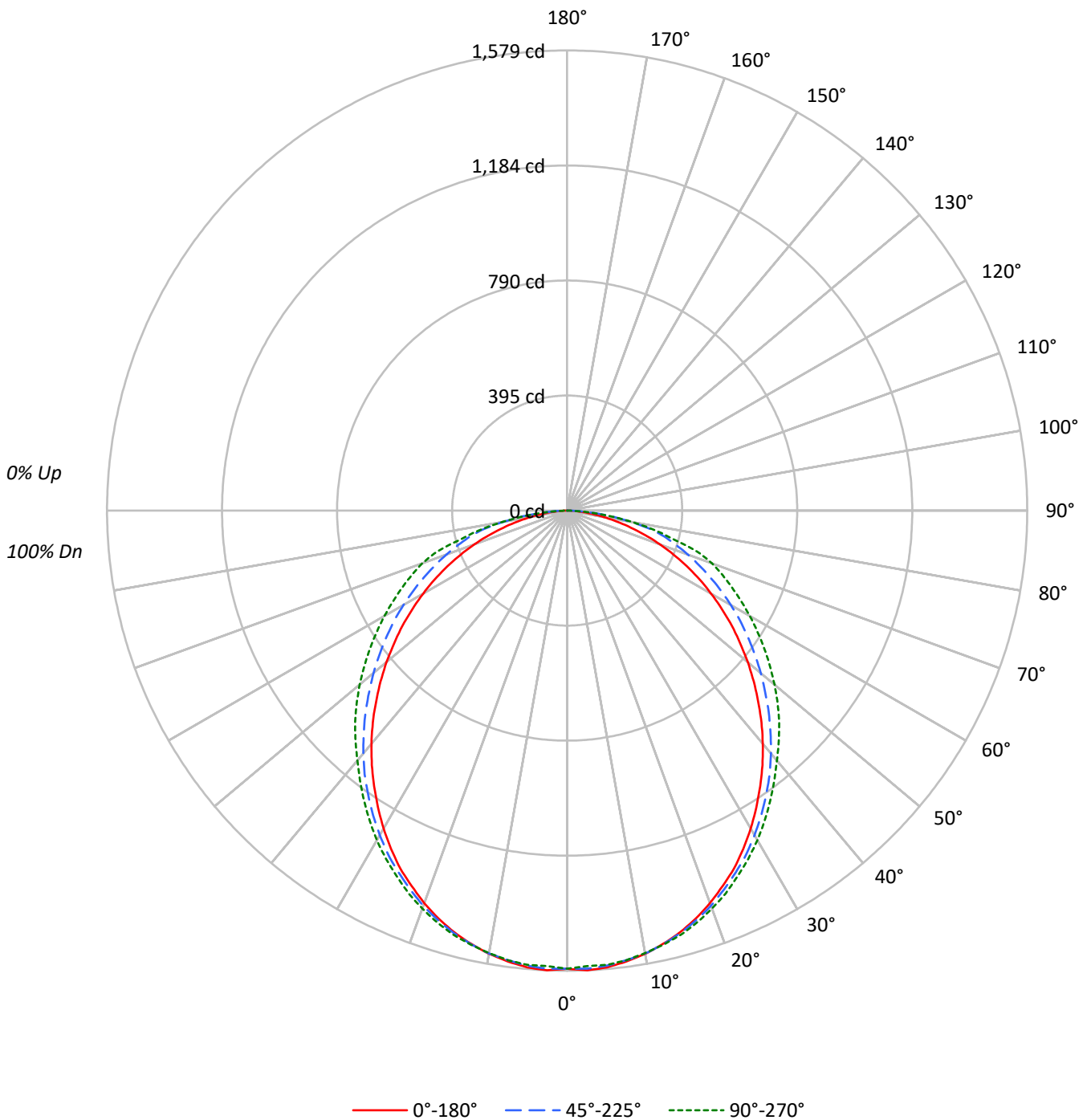
Input Watts (W): 32.922
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	77	70	64	74	68	62	72	66	61	69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53	64	58	52	62	56	52	50
5	76	63	53	47	73	61	53	47	59	52	46	57	51	45	55	50	45	43
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	38
7	65	51	42	36	63	50	42	36	49	41	36	47	41	35	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	29	27
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2115	2115	2115
5°	2125	2117	2113
10°	2110	2108	2106
15°	2087	2091	2099
20°	2052	2067	2081
25°	2012	2033	2055
30°	1957	1998	2029
35°	1896	1955	1996
40°	1835	1911	1967
45°	1765	1861	1957
50°	1694	1814	1945
55°	1620	1776	1939
60°	1536	1746	1948
65°	1444	1725	1987
70°	1330	1733	2080
75°	1179	1795	1938
80°	985	1702	1746
85°	736	1360	1249



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.6	3.4
10°-20°	422.7	9.7
20°-30°	629.9	14.5
30°-40°	741.5	17.1
40°-50°	753.5	17.4
50°-60°	677.4	15.6
60°-70°	535.2	12.3
70°-80°	339.5	7.8
80°-90°	93.7	2.2
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°	1201.2	27.7
0°-40°	1942.6	44.7
0°-60°	3373.6	77.7
0°-90°	4342.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4342.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1572	1572	1572	1572	1572	
5°	1573	1560	1568	1565	1565	149
15°	1498	1491	1501	1505	1507	422
25°	1355	1354	1370	1378	1384	623
35°	1154	1162	1190	1204	1215	722
45°	928	940	978	1007	1029	716
55°	691	708	757	806	826	617
65°	454	477	542	601	624	449
75°	227	266	345	376	373	241
85°	48	82	88	81	81	59
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1571.9	1571.9	1571.9	1571.9	1571.9
2.5°	1579.1	1567.5	1573.3	1570.4	1564.7
5°	1573.3	1560.3	1567.5	1564.7	1564.7
7.5°	1560.3	1550.2	1556.0	1554.5	1556.0
10°	1544.4	1534.3	1543.0	1543.0	1541.5
12.5°	1522.8	1514.1	1524.2	1524.2	1525.7
15°	1498.2	1491.0	1501.1	1505.4	1506.9
17.5°	1467.9	1460.6	1473.6	1478.0	1482.3
20°	1433.2	1430.3	1443.3	1447.6	1453.4
22.5°	1394.2	1394.2	1407.2	1413.0	1421.6
25°	1355.2	1353.7	1369.6	1378.3	1384.1
27.5°	1308.9	1310.4	1330.6	1339.3	1346.5
30°	1259.8	1262.7	1285.8	1295.9	1306.1
32.5°	1207.8	1213.6	1239.6	1251.2	1261.3
35°	1154.4	1161.6	1190.5	1203.5	1215.0
37.5°	1100.9	1111.0	1141.3	1154.4	1167.4
40°	1044.6	1053.2	1087.9	1103.8	1119.7
42.5°	986.8	998.3	1033.0	1056.1	1074.9
45°	927.5	940.5	978.1	1007.0	1028.7
47.5°	868.3	885.6	921.7	960.8	979.5
50°	809.1	826.4	866.8	910.2	929.0
52.5°	748.4	765.7	811.9	856.7	877.0
55°	690.6	707.9	757.0	806.2	826.4
57.5°	629.9	648.7	703.6	754.2	774.4
60°	570.7	589.5	648.7	702.1	723.8
62.5°	512.9	533.1	595.2	651.6	673.3
65°	453.7	476.8	541.8	601.0	624.1
67.5°	395.9	421.9	489.8	551.9	576.5
70°	338.1	368.4	440.6	504.2	528.8
72.5°	281.7	315.0	391.5	455.1	468.1
75°	226.8	265.8	345.3	375.6	372.7
77.5°	174.8	218.2	293.3	299.1	307.7
80°	127.1	174.8	219.6	231.2	225.4
82.5°	83.8	131.5	157.5	151.7	150.3
85°	47.7	82.4	88.1	80.9	80.9
87.5°	20.2	33.2	28.9	21.7	20.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)