

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: P260732

Luminaire Tested: **24CZ-LD5-45-UNV-L82765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260732
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25697)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ-LD5-45-UNV-L82765-W2A1-U-4000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (336) 80 CRI LEDS TUNED AT 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4477.0 lumens
Efficiency: N/A
Efficacy: 140.8 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.25 / 1.35
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

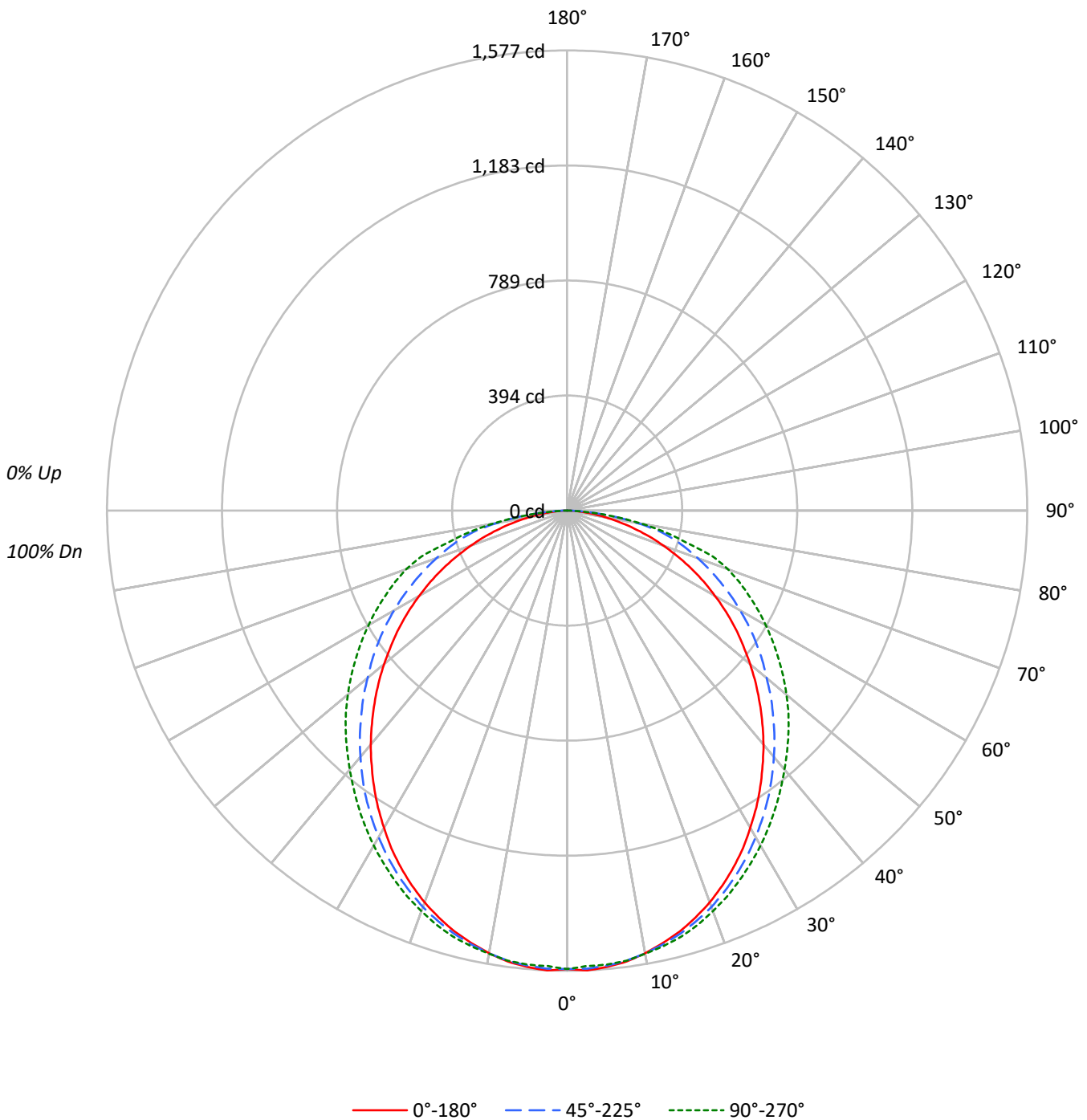
Input Watts (W): 31.806
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83
2	98	90	83	77	95	88	81	76	84	79	74	81	76	72	78	74	71	68
3	89	78	70	63	87	77	69	63	74	67	62	71	65	61	68	64	60	57
4	82	69	60	54	79	68	60	53	66	58	52	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	35	32
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29
9	56	42	34	28	54	42	34	28	41	33	28	40	33	28	38	32	28	26
10	52	39	31	26	51	39	31	26	38	31	26	37	30	25	36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2114	2114	2114
5°	2120	2114	2110
10°	2105	2105	2107
15°	2080	2090	2105
20°	2046	2070	2092
25°	2003	2041	2075
30°	1950	2008	2060
35°	1896	1974	2044
40°	1839	1936	2036
45°	1776	1899	2042
50°	1714	1867	2053
55°	1650	1856	2075
60°	1576	1844	2116
65°	1493	1845	2186
70°	1381	1875	2304
75°	1235	1960	2191
80°	1034	1877	2008
85°	781	1443	1372



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.5	3.3
10°-20°	422.6	9.4
20°-30°	631.7	14.1
30°-40°	749.4	16.7
40°-50°	771.3	17.2
50°-60°	707.6	15.8
60°-70°	572.2	12.8
70°-80°	371.3	8.3
80°-90°	102.4	2.3
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°	1202.8	26.9
0°-40°	1952.2	43.6
0°-60°	3431.1	76.6
0°-90°	4477.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4477.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1571	1571	1571	1571	1571	
5°	1570	1559	1565	1564	1562	149
15°	1493	1487	1501	1507	1511	421
25°	1349	1350	1375	1387	1398	621
35°	1154	1164	1202	1228	1245	722
45°	934	949	998	1045	1073	720
55°	704	725	791	855	884	629
65°	469	497	579	656	687	464
75°	238	282	377	422	422	253
85°	51	86	94	90	89	62
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1571.2	1571.2	1571.2	1571.2	1571.2
2.5°	1577.3	1565.1	1571.2	1569.7	1562.0
5°	1569.7	1558.9	1565.1	1563.5	1562.0
7.5°	1558.9	1548.2	1555.9	1554.3	1555.9
10°	1540.5	1531.3	1540.5	1542.1	1542.1
12.5°	1517.5	1509.9	1522.1	1525.2	1528.3
15°	1493.0	1486.9	1500.7	1506.8	1511.4
17.5°	1462.4	1457.8	1474.6	1482.3	1488.4
20°	1428.6	1427.1	1445.5	1453.2	1460.8
22.5°	1390.3	1390.3	1411.8	1421.0	1431.7
25°	1348.9	1350.5	1375.0	1387.2	1398.0
27.5°	1304.5	1306.0	1335.1	1350.5	1362.7
30°	1255.4	1261.6	1292.2	1312.1	1325.9
32.5°	1206.4	1214.0	1247.8	1270.8	1286.1
35°	1154.3	1163.5	1201.8	1227.8	1244.7
37.5°	1100.6	1111.3	1152.7	1181.8	1201.8
40°	1047.0	1059.2	1102.1	1135.9	1158.9
42.5°	990.2	1004.0	1051.6	1091.4	1115.9
45°	933.5	948.8	997.9	1045.4	1073.0
47.5°	876.8	895.2	947.3	999.4	1028.6
50°	818.6	836.9	892.1	951.9	981.0
52.5°	760.3	781.8	843.1	904.4	933.5
55°	703.6	725.0	791.0	855.3	884.5
57.5°	645.3	666.8	738.8	806.3	835.4
60°	585.6	610.1	685.2	754.2	786.4
62.5°	527.3	553.4	633.1	706.7	737.3
65°	469.1	496.7	579.4	656.1	686.7
67.5°	409.3	441.5	527.3	605.5	637.7
70°	351.0	386.3	476.7	554.9	585.6
72.5°	294.3	332.6	426.1	505.8	524.2
75°	237.6	282.0	377.1	421.5	421.5
77.5°	183.9	233.0	321.9	338.8	348.0
80°	133.4	187.0	242.2	262.1	259.1
82.5°	88.9	142.6	173.2	173.2	168.6
85°	50.6	85.8	93.5	90.4	88.9
87.5°	21.5	32.2	29.1	23.0	19.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)