

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: P260728

Luminaire Tested: **24CZ-LD5-40-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260728
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-LD5-40-UNV-L82765-W2A1-U-6500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (336) 80 CRI LEDS TUNED AT 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4257.0 lumens
Efficiency: N/A
Efficacy: 143.9 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

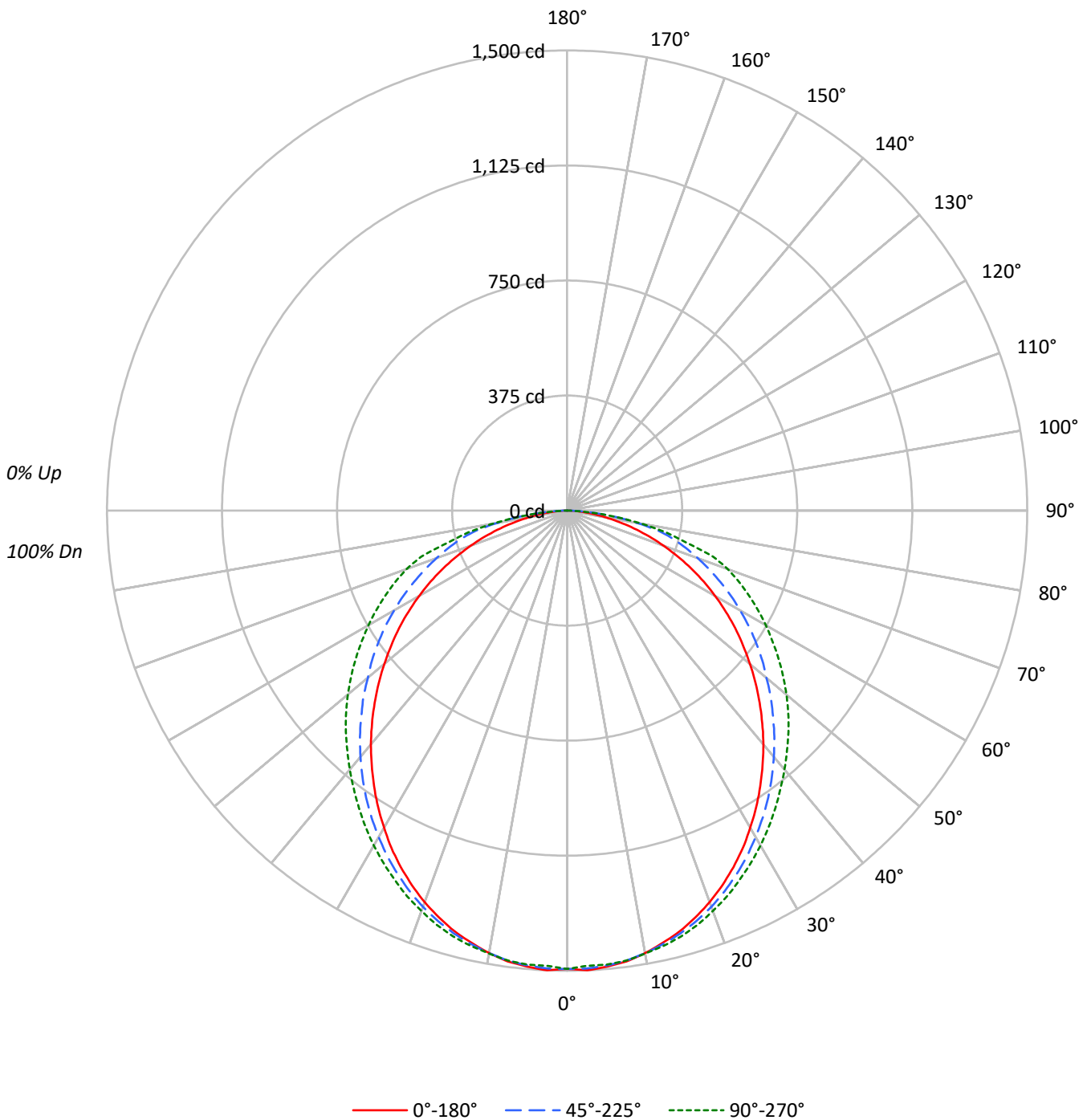
Input Watts (W): 29.574
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2010	2010	2010
5°	2016	2010	2006
10°	2001	2001	2003
15°	1978	1988	2002
20°	1945	1968	1989
25°	1904	1941	1973
30°	1855	1909	1959
35°	1803	1877	1944
40°	1749	1841	1935
45°	1689	1806	1941
50°	1629	1776	1953
55°	1569	1764	1973
60°	1498	1753	2012
65°	1420	1754	2079
70°	1313	1783	2190
75°	1174	1864	2084
80°	982	1784	1908
85°	743	1372	1304



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.2	3.3
10°-20°	401.8	9.4
20°-30°	600.7	14.1
30°-40°	712.6	16.7
40°-50°	733.4	17.2
50°-60°	672.8	15.8
60°-70°	544.0	12.8
70°-80°	353.1	8.3
80°-90°	97.4	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°	1143.7	26.9
0°-40°	1856.3	43.6
0°-60°	3262.5	76.6
0°-90°	4257.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4257.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1494	1494	1494	1494	1494	
5°	1492	1482	1488	1487	1485	142
15°	1420	1414	1427	1433	1437	400
25°	1283	1284	1307	1319	1329	590
35°	1098	1106	1143	1168	1184	686
45°	888	902	949	994	1020	685
55°	669	689	752	813	841	598
65°	446	472	551	624	653	441
75°	226	268	359	401	401	240
85°	48	82	89	86	84	59
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1494.0	1494.0	1494.0	1494.0	1494.0
2.5°	1499.8	1488.2	1494.0	1492.5	1485.2
5°	1492.5	1482.3	1488.2	1486.7	1485.2
7.5°	1482.3	1472.1	1479.4	1478.0	1479.4
10°	1464.8	1456.1	1464.8	1466.3	1466.3
12.5°	1443.0	1435.7	1447.3	1450.3	1453.2
15°	1419.7	1413.8	1426.9	1432.8	1437.1
17.5°	1390.5	1386.1	1402.2	1409.4	1415.3
20°	1358.4	1357.0	1374.5	1381.8	1389.0
22.5°	1322.0	1322.0	1342.4	1351.1	1361.3
25°	1282.6	1284.1	1307.4	1319.1	1329.3
27.5°	1240.4	1241.8	1269.5	1284.1	1295.8
30°	1193.7	1199.6	1228.7	1247.7	1260.8
32.5°	1147.1	1154.4	1186.4	1208.3	1222.9
35°	1097.5	1106.3	1142.7	1167.5	1183.5
37.5°	1046.5	1056.7	1096.1	1123.8	1142.7
40°	995.5	1007.2	1048.0	1080.0	1101.9
42.5°	941.6	954.7	999.9	1037.8	1061.1
45°	887.6	902.2	948.9	994.0	1020.3
47.5°	833.7	851.2	900.8	950.3	978.0
50°	778.3	795.8	848.3	905.1	932.8
52.5°	722.9	743.3	801.7	860.0	887.6
55°	669.0	689.4	752.1	813.3	841.0
57.5°	613.6	634.0	702.5	766.7	794.4
60°	556.8	580.1	651.5	717.1	747.7
62.5°	501.4	526.2	602.0	671.9	701.1
65°	446.0	472.2	551.0	623.8	653.0
67.5°	389.2	419.8	501.4	575.7	606.3
70°	333.8	367.3	453.3	527.6	556.8
72.5°	279.8	316.3	405.2	481.0	498.5
75°	225.9	268.2	358.6	400.8	400.8
77.5°	174.9	221.5	306.1	322.1	330.9
80°	126.8	177.8	230.3	249.2	246.3
82.5°	84.5	135.6	164.7	164.7	160.3
85°	48.1	81.6	88.9	86.0	84.5
87.5°	20.4	30.6	27.7	21.9	18.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)