

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: P276079

Luminaire Tested: **24CZ2-50HE-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276079
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-5)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ2-50HE-UNV-L82765-W2A1-U-3000K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (336) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4488.7 lumens
Efficiency: N/A
Efficacy: 126.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.27 / 1.37
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

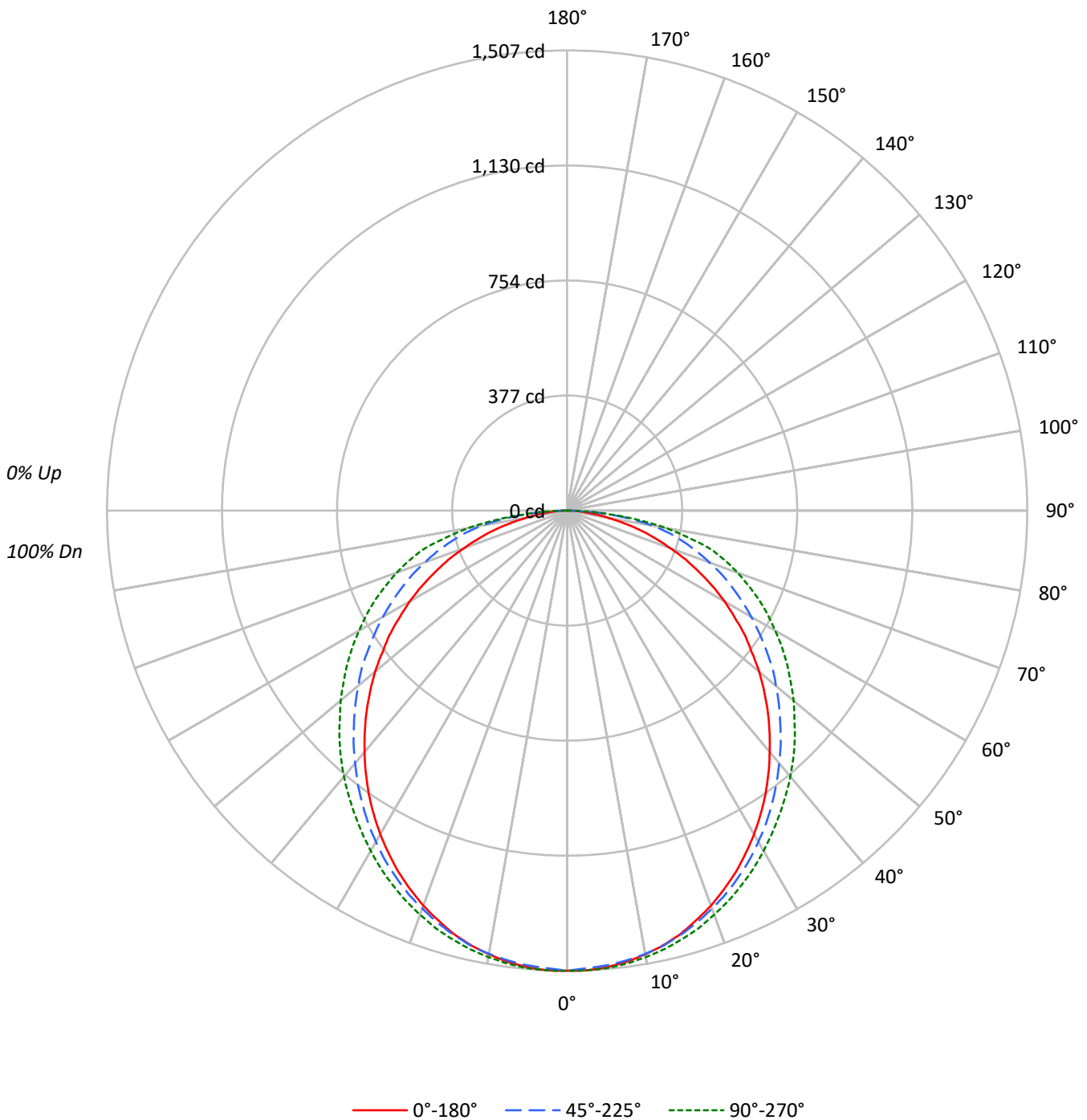
Input Watts (W): 35.433
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	89	86	84	82
2	98	89	82	76	95	87	80	75	83	78	73	80	75	71	77	73	70	67
3	89	78	69	62	86	76	68	62	73	66	61	70	64	60	68	63	58	56
4	81	69	59	52	79	67	59	52	65	57	51	62	56	51	60	55	50	48
5	74	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43	41
6	69	55	46	39	67	54	45	39	52	44	39	50	44	38	49	43	38	36
7	64	50	41	35	62	49	40	34	47	40	34	46	39	34	45	38	34	32
8	59	45	37	31	58	45	36	31	43	36	30	42	35	30	41	35	30	28
9	55	42	33	28	54	41	33	28	40	33	27	39	32	27	38	32	27	25
10	52	38	30	25	51	38	30	25	37	30	25	36	29	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2028	2028	2028
5°	2027	2019	2031
10°	2016	2014	2028
15°	1999	2003	2024
20°	1971	1986	2016
25°	1939	1968	2008
30°	1901	1946	1999
35°	1860	1922	1993
40°	1813	1897	1997
45°	1767	1878	2007
50°	1719	1869	2026
55°	1666	1866	2063
60°	1600	1875	2116
65°	1517	1903	2208
70°	1408	1951	2334
75°	1285	2048	2531
80°	1056	2205	2531
85°	809	2035	2174



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.5	3.2
10°-20°	406.9	9.1
20°-30°	612.4	13.6
30°-40°	733.8	16.3
40°-50°	764.7	17.0
50°-60°	711.5	15.9
60°-70°	586.0	13.1
70°-80°	399.1	8.9
80°-90°	131.7	2.9
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°	1161.8	25.9
0°-40°	1895.7	42.2
0°-60°	3371.9	75.1
0°-90°	4488.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4488.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1507	1507	1507	1507	1507	
5°	1501	1501	1495	1503	1504	142
15°	1435	1437	1438	1452	1453	404
25°	1306	1312	1326	1348	1353	601
35°	1133	1146	1170	1202	1214	708
45°	929	948	987	1037	1055	716
55°	710	734	796	858	879	633
65°	476	517	598	668	694	473
75°	247	303	394	464	487	261
85°	52	102	132	141	141	65
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1507.1	1507.1	1507.1	1507.1	1507.1
2.5°	1507.1	1507.1	1499.6	1507.1	1507.1
5°	1501.1	1501.1	1495.1	1502.6	1504.1
7.5°	1490.6	1492.1	1486.1	1495.1	1496.6
10°	1475.6	1477.1	1474.1	1483.1	1484.6
12.5°	1457.7	1459.1	1459.1	1469.6	1471.1
15°	1435.2	1436.7	1438.2	1451.7	1453.2
17.5°	1406.7	1411.2	1414.2	1430.7	1433.7
20°	1376.8	1381.2	1387.2	1405.2	1408.2
22.5°	1342.3	1348.3	1358.8	1378.3	1382.7
25°	1306.3	1312.3	1325.8	1348.3	1352.8
27.5°	1265.9	1274.9	1291.4	1315.3	1321.3
30°	1223.9	1232.9	1252.4	1277.9	1286.9
32.5°	1179.0	1191.0	1213.5	1241.9	1250.9
35°	1132.6	1146.0	1170.0	1201.5	1213.5
37.5°	1083.1	1098.1	1126.6	1161.0	1176.0
40°	1032.2	1050.2	1080.1	1120.6	1137.1
42.5°	981.3	997.7	1035.2	1078.6	1096.6
45°	928.8	948.3	987.2	1036.7	1054.7
47.5°	874.9	894.4	940.8	993.2	1009.7
50°	821.0	840.4	892.9	948.3	967.8
52.5°	762.5	788.0	847.9	903.4	922.8
55°	710.1	734.1	795.5	858.4	879.4
57.5°	650.2	678.6	746.1	812.0	834.4
60°	594.7	624.7	696.6	764.0	786.5
62.5°	537.8	570.8	647.2	716.1	741.6
65°	476.4	516.8	597.7	668.2	693.6
67.5°	421.0	462.9	548.3	620.2	642.7
70°	358.0	409.0	495.9	567.8	593.2
72.5°	304.1	355.0	446.4	516.8	542.3
75°	247.2	302.6	394.0	464.4	486.9
77.5°	190.3	251.7	343.1	397.0	404.5
80°	136.3	200.7	284.6	316.1	326.6
82.5°	95.9	154.3	209.7	230.7	236.7
85°	52.4	101.9	131.8	140.8	140.8
87.5°	22.5	43.4	52.4	53.9	55.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)