

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: P345055

Luminaire Tested: **24CZ-50-L835-HRP-UNV-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P345055
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1905-313-5)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ-50-L835-HRP-UNV-CD1-U
Description: CRUZE 2X4 WITH HRP LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4234.0 lumens
Efficiency: N/A
Efficacy: 104.0 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.29 / 1.4
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

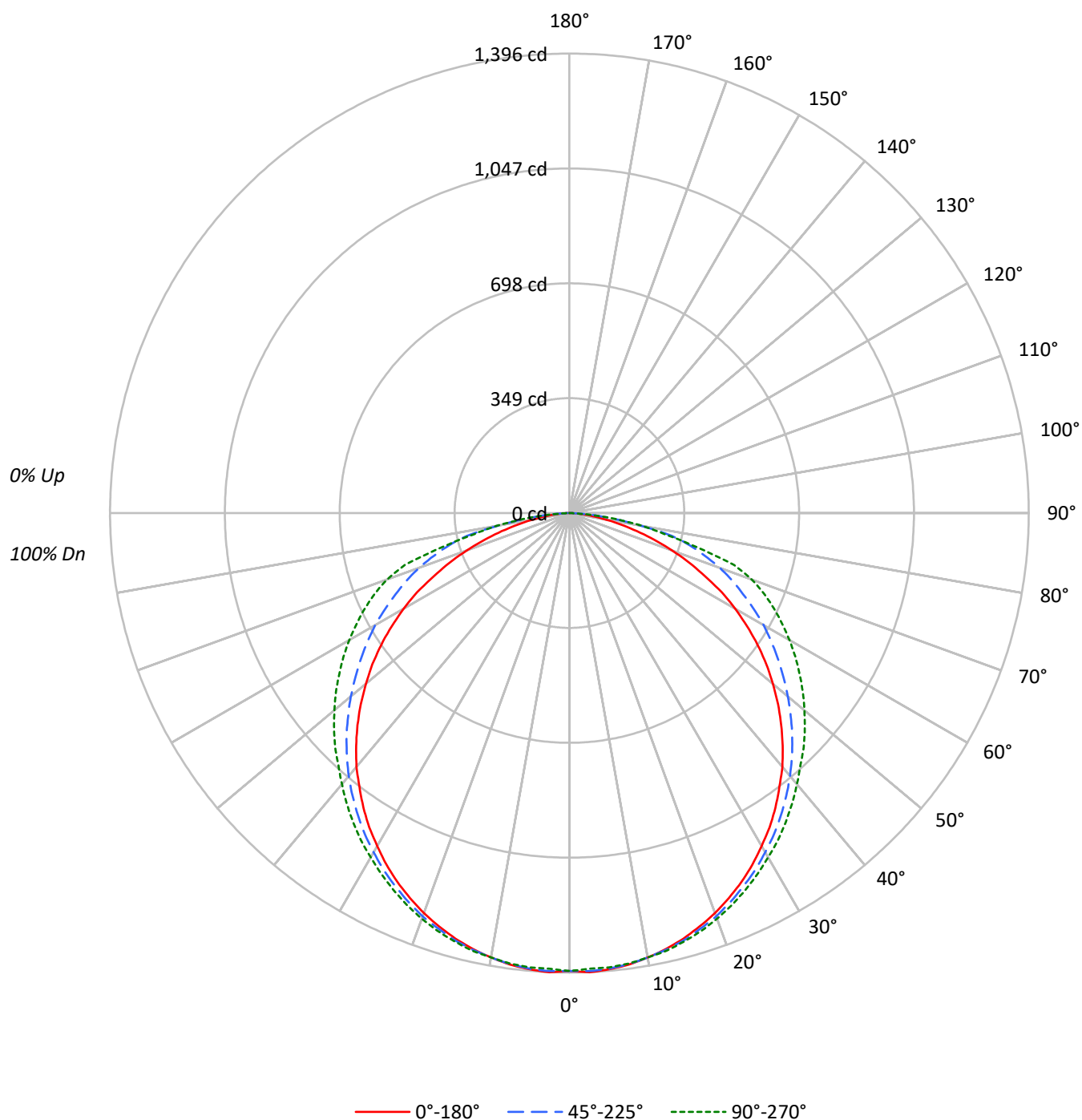
Input Watts (W): 40.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10		50	30	10		50	30	10		50	30	10
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	108	103	99	95	105	101	97	93		97	93	90		93	90	87		89	87	85
2	98	89	82	76	95	87	81	75		84	78	74		81	76	72		77	74	70
3	89	78	70	63	86	76	69	62		73	67	61		71	65	60		68	63	59
4	81	69	60	53	79	68	59	52		65	58	52		63	56	51		60	55	50
5	75	61	52	45	72	60	52	45		58	50	44		56	49	44		54	48	43
6	69	55	46	39	67	54	45	39		52	45	39		51	44	38		49	43	38
7	64	50	41	35	62	49	41	34		48	40	34		46	39	34		45	38	34
8	59	45	37	31	58	45	36	31		43	36	31		42	35	30		41	35	30
9	55	42	33	28	54	41	33	28		40	33	27		39	32	27		38	32	27
10	52	38	30	25	51	38	30	25		37	30	25		36	29	25		35	29	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1872	1872	1872
5°	1879	1876	1872
10°	1873	1873	1873
15°	1864	1872	1877
20°	1852	1867	1878
25°	1836	1858	1877
30°	1815	1849	1877
35°	1793	1841	1883
40°	1768	1832	1889
45°	1733	1822	1915
50°	1689	1815	1951
55°	1638	1817	2004
60°	1567	1835	2079
65°	1449	1854	2183
70°	1306	1912	2319
75°	1103	1971	2074
80°	857	1686	1743
85°	616	1149	1008



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.9	3.1
10°-20°	378.6	8.9
20°-30°	575.8	13.6
30°-40°	699.6	16.5
40°-50°	738.3	17.4
50°-60°	693.8	16.4
60°-70°	571.2	13.5
70°-80°	359.8	8.5
80°-90°	85.0	2.0
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°	1086.3	25.7
0°-40°	1785.9	42.2
0°-60°	3218.0	76.0
0°-90°	4234.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4234.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1391	1391	1391	1391	1391	
5°	1391	1384	1389	1388	1386	132
15°	1338	1333	1344	1348	1348	378
25°	1237	1235	1251	1259	1264	570
35°	1092	1097	1121	1135	1146	683
45°	910	925	958	985	1007	702
55°	698	724	774	829	854	623
65°	455	499	582	657	686	452
75°	212	278	379	414	399	226
85°	40	67	74	69	65	50
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1391.1	1391.1	1391.1	1391.1	1391.1
2.5°	1396.5	1387.5	1392.9	1391.1	1385.7
5°	1391.1	1383.8	1389.3	1387.5	1385.7
7.5°	1383.8	1376.6	1382.0	1380.2	1380.2
10°	1371.2	1365.7	1371.2	1371.2	1371.2
12.5°	1356.6	1351.2	1358.5	1360.3	1362.1
15°	1338.5	1333.1	1343.9	1347.6	1347.6
17.5°	1316.7	1313.1	1324.0	1327.6	1331.3
20°	1293.2	1291.4	1304.0	1307.7	1311.3
22.5°	1266.0	1266.0	1278.7	1282.3	1289.5
25°	1236.9	1235.1	1251.4	1258.7	1264.1
27.5°	1204.3	1204.3	1222.4	1231.5	1236.9
30°	1168.0	1171.6	1189.8	1200.7	1207.9
32.5°	1131.7	1135.4	1157.1	1169.8	1178.9
35°	1091.8	1097.3	1120.9	1135.4	1146.3
37.5°	1048.3	1057.4	1082.8	1099.1	1111.8
40°	1006.6	1013.9	1042.9	1061.0	1075.5
42.5°	959.4	972.1	1001.2	1022.9	1039.2
45°	910.5	925.0	957.6	984.8	1006.6
47.5°	859.7	877.8	912.3	948.6	970.3
50°	807.1	827.0	866.9	910.5	932.2
52.5°	754.5	776.3	819.8	870.6	894.2
55°	698.3	723.7	774.4	828.9	854.2
57.5°	640.2	669.3	727.3	789.0	814.3
60°	582.2	613.0	681.9	743.6	772.6
62.5°	522.3	556.8	631.2	701.9	729.1
65°	455.2	498.8	582.2	656.6	685.6
67.5°	393.6	438.9	535.0	609.4	640.2
70°	331.9	384.5	486.1	560.4	589.5
72.5°	270.2	331.9	431.7	507.8	524.2
75°	212.2	277.5	379.1	413.5	399.0
77.5°	156.0	228.5	319.2	301.1	297.4
80°	110.6	181.4	217.6	219.5	224.9
82.5°	70.7	134.2	141.5	143.3	145.1
85°	39.9	67.1	74.4	68.9	65.3
87.5°	18.1	21.8	18.1	12.7	10.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)