

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: P345057

Luminaire Tested: **24CZ-50-L850-HRP-UNV-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P345057
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-L850-HRP-UNV-CD1-U
Description: CRUZE 2X4 WITH HRP LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4671.1 lumens
Efficiency: N/A
Efficacy: 114.8 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

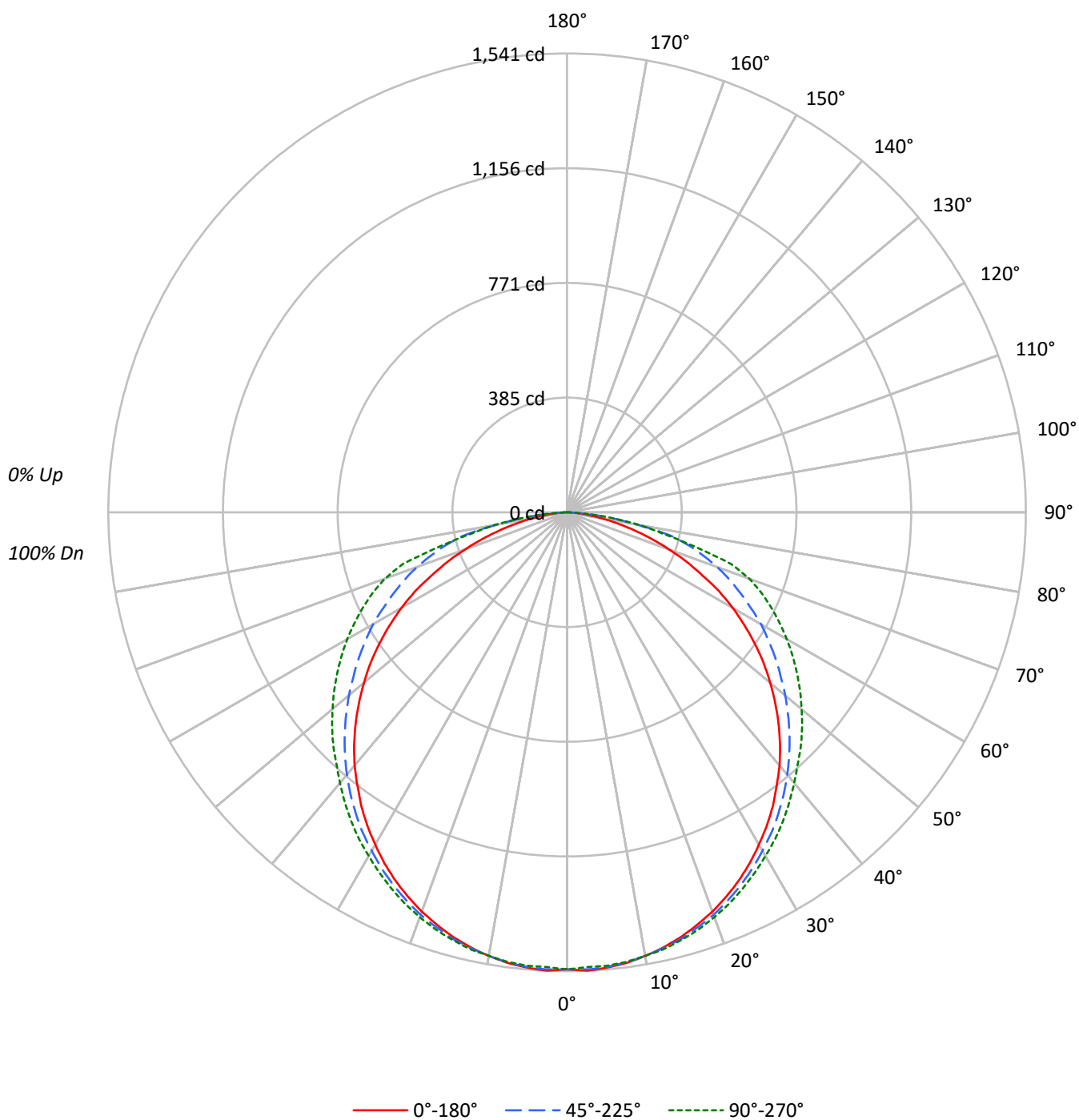
Input Watts (W): 40.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				0
RW	70	50	30	10	70	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		100
1	108	103	99	95	105	101	97	93	97	93	90		93	90	87		83
2	98	89	82	76	95	87	81	75	84	78	74		81	76	72		68
3	89	78	70	63	86	76	69	62	73	67	61		71	65	60		57
4	81	69	60	53	79	68	59	52	65	58	52		63	56	51		48
5	75	61	52	45	72	60	52	45	58	50	44		56	49	44		41
6	69	55	46	39	67	54	45	39	52	45	39		51	44	38		36
7	64	50	41	35	62	49	41	34	48	40	34		46	39	34		32
8	59	45	37	31	58	45	36	31	43	36	31		42	35	30		28
9	55	42	33	28	54	41	33	28	40	33	27		39	32	27		25
10	52	38	30	25	51	38	30	25	37	30	25		36	29	25		23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2065	2065	2065
5°	2073	2070	2065
10°	2067	2067	2067
15°	2057	2065	2071
20°	2043	2060	2071
25°	2026	2050	2071
30°	2002	2039	2070
35°	1979	2031	2077
40°	1950	2021	2084
45°	1911	2010	2113
50°	1864	2002	2153
55°	1807	2004	2211
60°	1728	2025	2294
65°	1599	2045	2408
70°	1441	2110	2558
75°	1217	2174	2288
80°	946	1860	1922
85°	679	1266	1112



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.5	3.1
10°-20°	417.7	8.9
20°-30°	635.3	13.6
30°-40°	771.8	16.5
40°-50°	814.6	17.4
50°-60°	765.4	16.4
60°-70°	630.1	13.5
70°-80°	397.0	8.5
80°-90°	93.7	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°	1198.4	25.7
0°-40°	1970.2	42.2
0°-60°	3550.3	76.0
0°-90°	4671.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4671.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1535	1535	1535	1535	1535	
5°	1535	1527	1533	1531	1529	146
15°	1477	1471	1483	1487	1487	417
25°	1365	1363	1381	1389	1395	629
35°	1205	1211	1237	1253	1265	753
45°	1004	1020	1056	1086	1110	774
55°	770	798	854	914	942	688
65°	502	550	642	724	756	499
75°	234	306	418	456	440	250
85°	44	74	82	76	72	55
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1534.7	1534.7	1534.7	1534.7	1534.7
2.5°	1540.7	1530.7	1536.7	1534.7	1528.7
5°	1534.7	1526.7	1532.7	1530.7	1528.7
7.5°	1526.7	1518.7	1524.7	1522.7	1522.7
10°	1512.7	1506.7	1512.7	1512.7	1512.7
12.5°	1496.7	1490.7	1498.7	1500.7	1502.7
15°	1476.7	1470.7	1482.7	1486.7	1486.7
17.5°	1452.7	1448.7	1460.7	1464.7	1468.7
20°	1426.7	1424.7	1438.7	1442.7	1446.7
22.5°	1396.7	1396.7	1410.7	1414.7	1422.7
25°	1364.7	1362.6	1380.7	1388.7	1394.7
27.5°	1328.6	1328.6	1348.6	1358.6	1364.7
30°	1288.6	1292.6	1312.6	1324.6	1332.6
32.5°	1248.6	1252.6	1276.6	1290.6	1300.6
35°	1204.6	1210.6	1236.6	1252.6	1264.6
37.5°	1156.6	1166.6	1194.6	1212.6	1226.6
40°	1110.5	1118.5	1150.5	1170.6	1186.6
42.5°	1058.5	1072.5	1104.5	1128.5	1146.5
45°	1004.5	1020.5	1056.5	1086.5	1110.5
47.5°	948.5	968.5	1006.5	1046.5	1070.5
50°	890.4	912.4	956.5	1004.5	1028.5
52.5°	832.4	856.4	904.4	960.5	986.5
55°	770.4	798.4	854.4	914.4	942.4
57.5°	706.3	738.4	802.4	870.4	898.4
60°	642.3	676.3	752.4	820.4	852.4
62.5°	576.3	614.3	696.3	774.4	804.4
65°	502.2	550.3	642.3	724.3	756.4
67.5°	434.2	484.2	590.3	672.3	706.3
70°	366.2	424.2	536.3	618.3	650.3
72.5°	298.1	366.2	476.2	560.3	578.3
75°	234.1	306.1	418.2	456.2	440.2
77.5°	172.1	252.1	352.2	332.2	328.2
80°	122.1	200.1	240.1	242.1	248.1
82.5°	78.0	148.1	156.1	158.1	160.1
85°	44.0	74.0	82.0	76.0	72.0
87.5°	20.0	24.0	20.0	14.0	12.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)