

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: P345067

Luminaire Tested: **24CZ-65-L835-HRP-UNV-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P345067
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-65-L835-HRP-UNV-CD1-U
Description: CRUZE 2X4 WITH HRP LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5584.5 lumens
Efficiency: N/A
Efficacy: 97.0 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

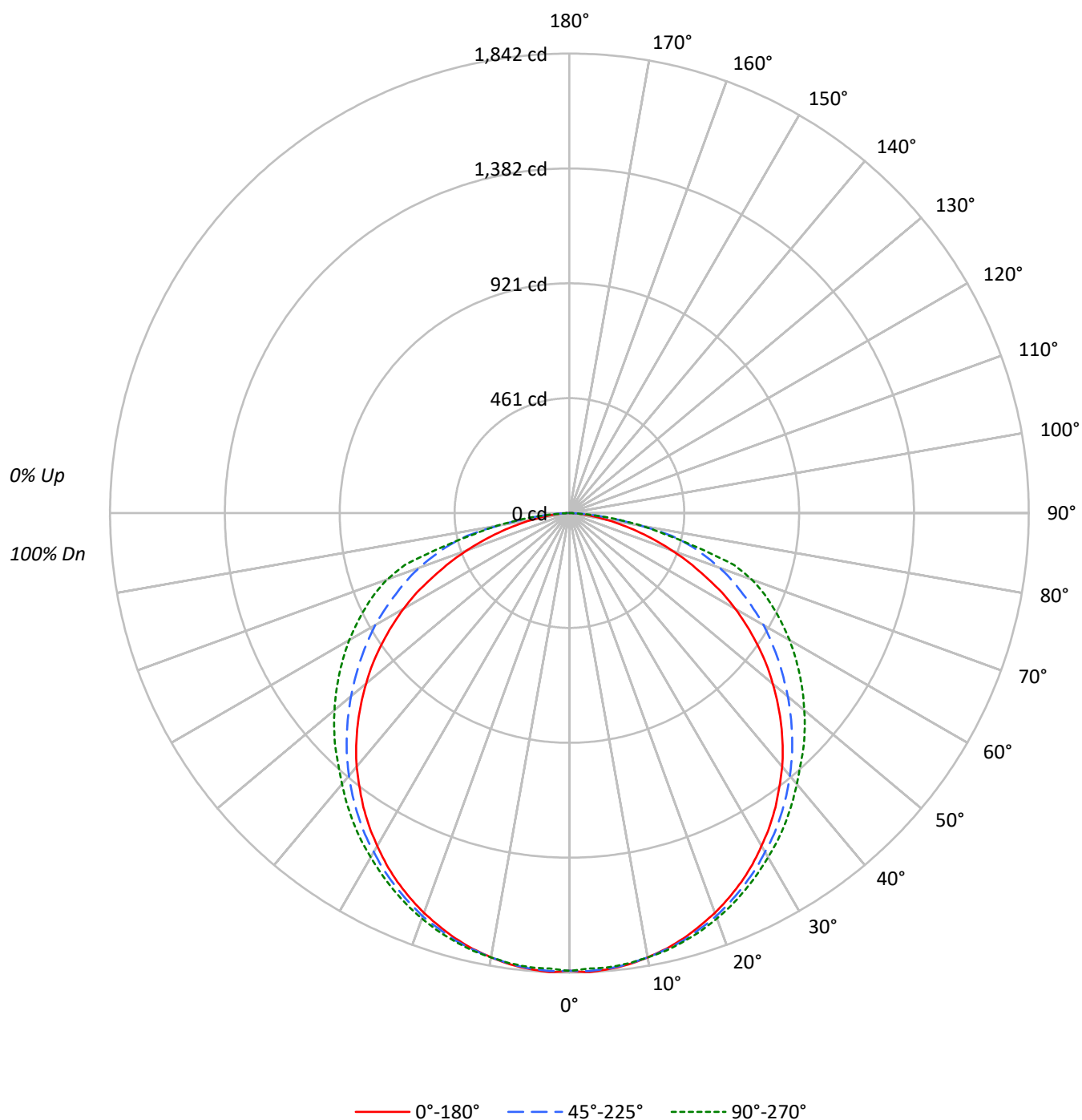
Input Watts (W): 57.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2469	2469	2469
5°	2478	2475	2468
10°	2471	2471	2471
15°	2459	2469	2476
20°	2442	2463	2477
25°	2422	2450	2475
30°	2394	2438	2475
35°	2365	2428	2483
40°	2332	2416	2492
45°	2285	2403	2526
50°	2228	2394	2574
55°	2160	2396	2643
60°	2066	2421	2742
65°	1911	2445	2879
70°	1722	2522	3059
75°	1455	2599	2736
80°	1130	2225	2298
85°	812	1514	1329



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	173.9	3.1
10°-20°	499.4	8.9
20°-30°	759.5	13.6
30°-40°	922.7	16.5
40°-50°	973.9	17.4
50°-60°	915.1	16.4
60°-70°	753.4	13.5
70°-80°	474.6	8.5
80°-90°	112.1	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°	1432.8	25.7
0°-40°	2355.5	42.2
0°-60°	4244.4	76.0
0°-90°	5584.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5584.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1835	1835	1835	1835	1835	
5°	1835	1825	1832	1830	1828	174
15°	1765	1758	1773	1777	1777	498
25°	1632	1629	1651	1660	1667	751
35°	1440	1447	1478	1498	1512	900
45°	1201	1220	1263	1299	1328	926
55°	921	954	1022	1093	1127	822
65°	600	658	768	866	904	596
75°	280	366	500	545	526	299
85°	53	88	98	91	86	66
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1834.8	1834.8	1834.8	1834.8	1834.8
2.5°	1842.0	1830.0	1837.2	1834.8	1827.6
5°	1834.8	1825.2	1832.4	1830.0	1827.6
7.5°	1825.2	1815.7	1822.9	1820.5	1820.5
10°	1808.5	1801.3	1808.5	1808.5	1808.5
12.5°	1789.4	1782.2	1791.8	1794.1	1796.5
15°	1765.4	1758.3	1772.6	1777.4	1777.4
17.5°	1736.7	1732.0	1746.3	1751.1	1755.9
20°	1705.6	1703.2	1720.0	1724.8	1729.6
22.5°	1669.8	1669.8	1686.5	1691.3	1700.9
25°	1631.5	1629.1	1650.6	1660.2	1667.4
27.5°	1588.4	1588.4	1612.3	1624.3	1631.5
30°	1540.6	1545.4	1569.3	1583.6	1593.2
32.5°	1492.7	1497.5	1526.2	1543.0	1554.9
35°	1440.1	1447.3	1478.4	1497.5	1511.9
37.5°	1382.7	1394.7	1428.1	1449.7	1466.4
40°	1327.7	1337.2	1375.5	1399.4	1418.6
42.5°	1265.5	1282.2	1320.5	1349.2	1370.7
45°	1200.9	1220.0	1263.1	1299.0	1327.7
47.5°	1133.9	1157.8	1203.3	1251.1	1279.8
50°	1064.5	1090.8	1143.5	1200.9	1229.6
52.5°	995.2	1023.9	1081.3	1148.3	1179.4
55°	921.0	954.5	1021.5	1093.2	1126.7
57.5°	844.4	882.7	959.3	1040.6	1074.1
60°	767.9	808.6	899.5	980.8	1019.1
62.5°	689.0	734.4	832.5	925.8	961.7
65°	600.4	657.9	767.9	866.0	904.3
67.5°	519.1	578.9	705.7	803.8	844.4
70°	437.8	507.1	641.1	739.2	777.5
72.5°	356.4	437.8	569.3	669.8	691.3
75°	279.9	366.0	500.0	545.4	526.3
77.5°	205.7	301.4	421.0	397.1	392.3
80°	145.9	239.2	287.1	289.5	296.6
82.5°	93.3	177.0	186.6	189.0	191.4
85°	52.6	88.5	98.1	90.9	86.1
87.5°	23.9	28.7	23.9	16.7	14.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)