

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: P345073

Luminaire Tested: **24CZ-70-L850-HRP-UNV-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P345073
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-70-L850-HRP-UNV-CD1-U
Description: CRUZE 2X4 WITH HRP LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6634.5 lumens
Efficiency: N/A
Efficacy: 103.3 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

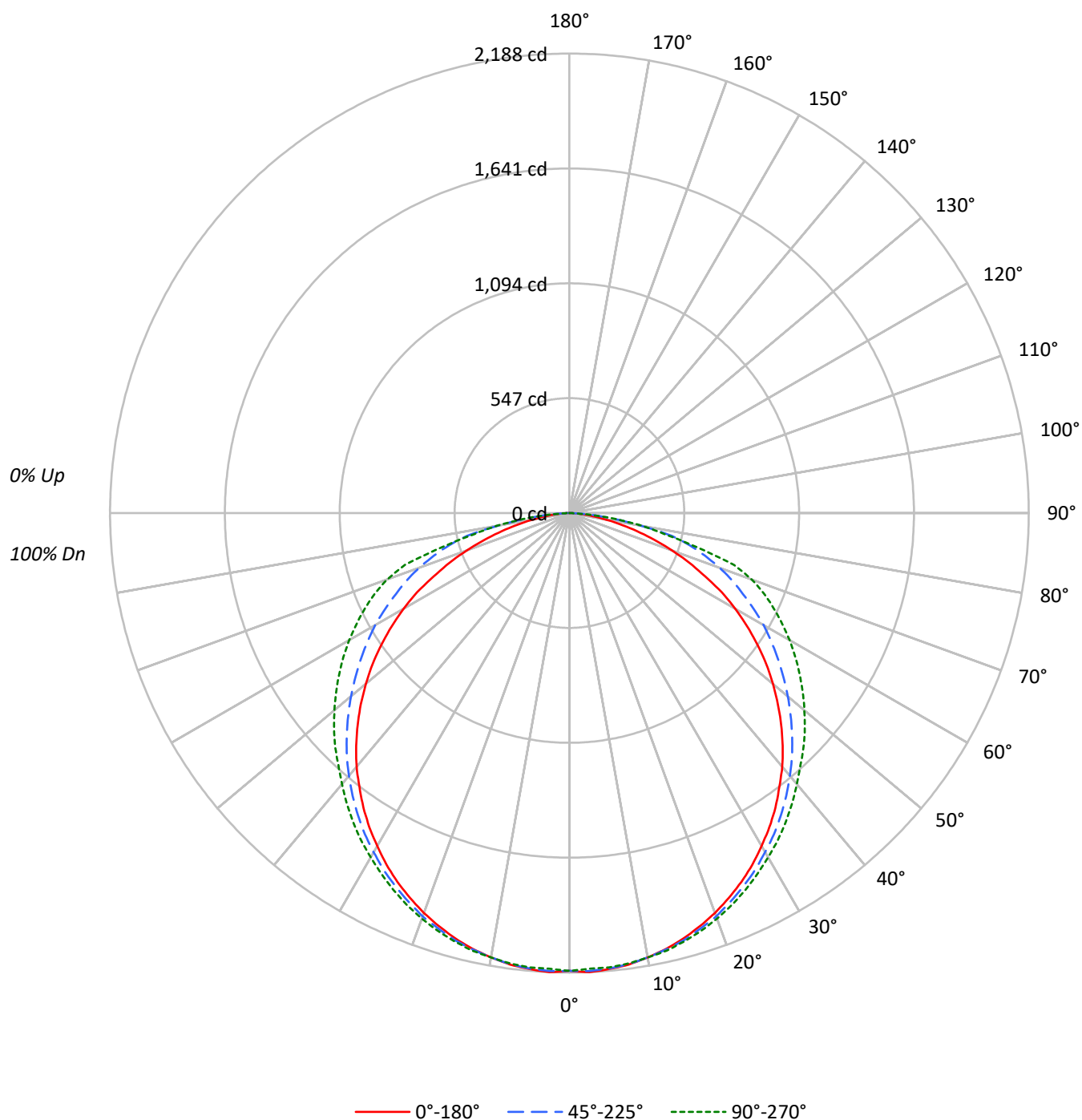
Input Watts (W): 64.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2933	2933	2933
5°	2944	2940	2933
10°	2935	2935	2935
15°	2922	2933	2941
20°	2901	2926	2942
25°	2877	2911	2941
30°	2843	2896	2941
35°	2810	2885	2950
40°	2770	2870	2960
45°	2715	2855	3001
50°	2647	2844	3058
55°	2567	2847	3140
60°	2455	2876	3258
65°	2271	2904	3420
70°	2046	2996	3633
75°	1729	3088	3250
80°	1344	2642	2731
85°	965	1798	1579



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	206.6	3.1
10°-20°	593.3	8.9
20°-30°	902.3	13.6
30°-40°	1096.2	16.5
40°-50°	1157.0	17.4
50°-60°	1087.2	16.4
60°-70°	895.0	13.5
70°-80°	563.9	8.5
80°-90°	133.1	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°	1702.2	25.7
0°-40°	2798.4	42.2
0°-60°	5042.5	76.0
0°-90°	6634.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6634.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2180	2180	2180	2180	2180	
5°	2180	2168	2177	2174	2171	207
15°	2097	2089	2106	2112	2112	592
25°	1938	1935	1961	1972	1981	893
35°	1711	1719	1756	1779	1796	1070
45°	1427	1449	1501	1543	1577	1100
55°	1094	1134	1214	1299	1339	977
65°	713	782	912	1029	1074	708
75°	332	435	594	648	625	355
85°	62	105	116	108	102	78
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2179.8	2179.8	2179.8	2179.8	2179.8
2.5°	2188.3	2174.1	2182.6	2179.8	2171.3
5°	2179.8	2168.4	2177.0	2174.1	2171.3
7.5°	2168.4	2157.1	2165.6	2162.8	2162.8
10°	2148.5	2140.0	2148.5	2148.5	2148.5
12.5°	2125.8	2117.3	2128.6	2131.5	2134.3
15°	2097.4	2088.9	2105.9	2111.6	2111.6
17.5°	2063.3	2057.6	2074.7	2080.3	2086.0
20°	2026.3	2023.5	2043.4	2049.1	2054.8
22.5°	1983.7	1983.7	2003.6	2009.3	2020.7
25°	1938.2	1935.4	1961.0	1972.3	1980.9
27.5°	1887.1	1887.1	1915.5	1929.7	1938.2
30°	1830.2	1835.9	1864.3	1881.4	1892.8
32.5°	1773.4	1779.1	1813.2	1833.1	1847.3
35°	1710.9	1719.4	1756.3	1779.1	1796.1
37.5°	1642.7	1656.9	1696.7	1722.2	1742.1
40°	1577.3	1588.7	1634.1	1662.6	1685.3
42.5°	1503.4	1523.3	1568.8	1602.9	1628.5
45°	1426.7	1449.4	1500.6	1543.2	1577.3
47.5°	1347.1	1375.5	1429.5	1486.4	1520.5
50°	1264.7	1295.9	1358.5	1426.7	1460.8
52.5°	1182.3	1216.4	1284.6	1364.2	1401.1
55°	1094.2	1134.0	1213.5	1298.8	1338.6
57.5°	1003.2	1048.7	1139.6	1236.3	1276.1
60°	912.3	960.6	1068.6	1165.2	1210.7
62.5°	818.5	872.5	989.0	1099.8	1142.5
65°	713.3	781.5	912.3	1028.8	1074.3
67.5°	616.7	687.8	838.4	954.9	1003.2
70°	520.1	602.5	761.7	878.2	923.6
72.5°	423.5	520.1	676.4	795.8	821.3
75°	332.5	434.8	594.0	648.0	625.2
77.5°	244.4	358.1	500.2	471.8	466.1
80°	173.4	284.2	341.0	343.9	352.4
82.5°	110.8	210.3	221.7	224.5	227.4
85°	62.5	105.2	116.5	108.0	102.3
87.5°	28.4	34.1	28.4	19.9	17.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)