

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: P345077

Luminaire Tested: **24CZ-75-L850-HRP-UNV-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P345077
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-75-L850-HRP-UNV-CD1-U
Description: CRUZE 2X4 WITH HRP LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7015.6 lumens
Efficiency: N/A
Efficacy: 101.5 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

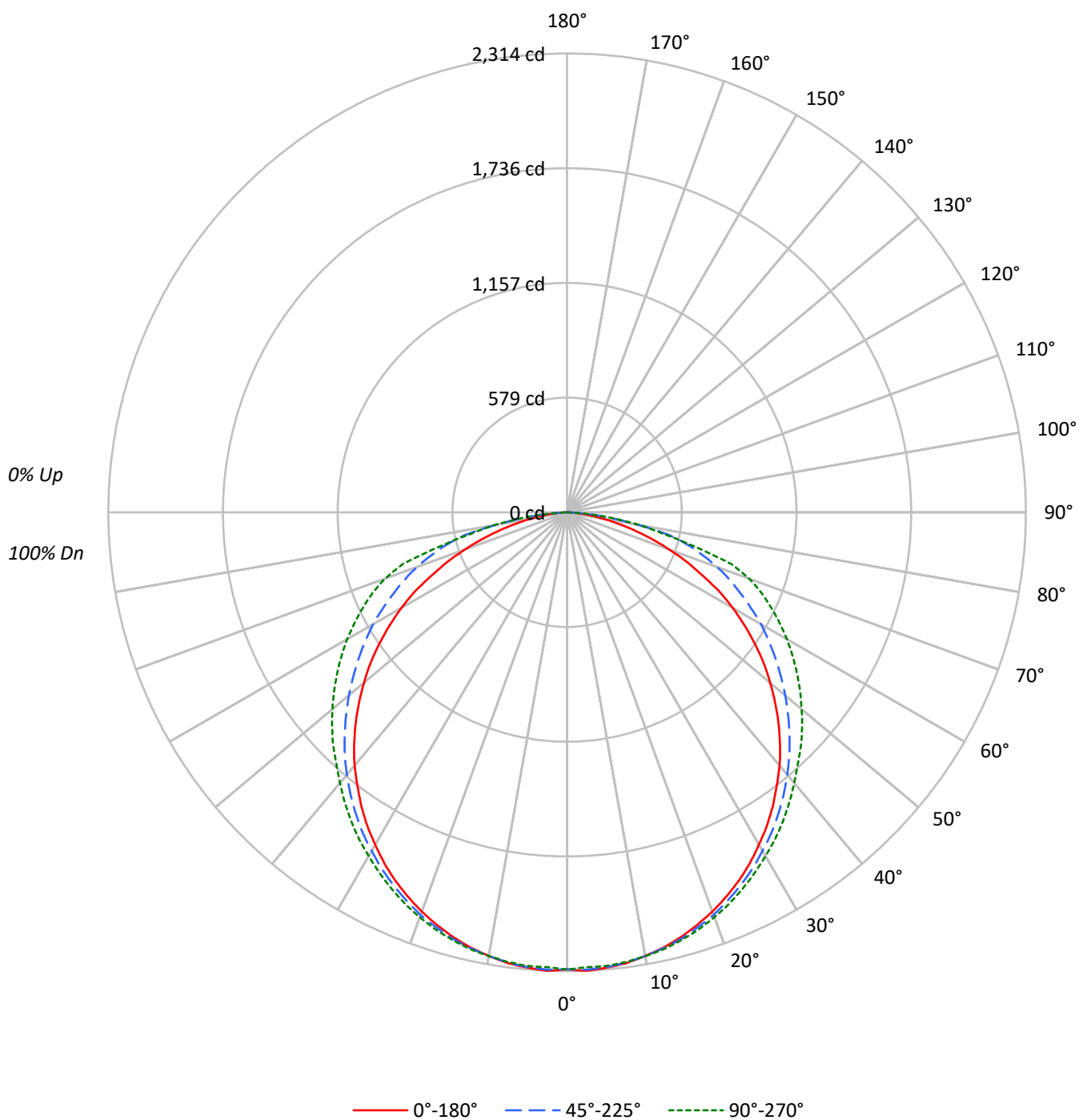
Input Watts (W): 69.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3101	3101	3101
5°	3113	3109	3101
10°	3104	3104	3104
15°	3089	3102	3110
20°	3068	3094	3111
25°	3043	3078	3110
30°	3007	3063	3110
35°	2972	3051	3120
40°	2930	3035	3130
45°	2871	3019	3174
50°	2799	3007	3233
55°	2714	3010	3320
60°	2596	3041	3445
65°	2401	3071	3617
70°	2164	3168	3842
75°	1828	3265	3437
80°	1420	2794	2888
85°	1020	1902	1670



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	218.5	3.1
10°-20°	627.4	8.9
20°-30°	954.1	13.6
30°-40°	1159.2	16.5
40°-50°	1223.4	17.4
50°-60°	1149.6	16.4
60°-70°	946.4	13.5
70°-80°	596.2	8.5
80°-90°	140.8	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°	1800.0	25.7
0°-40°	2959.1	42.2
0°-60°	5332.2	76.0
0°-90°	7015.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7015.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2305	2305	2305	2305	2305	
5°	2305	2293	2302	2299	2296	219
15°	2218	2209	2227	2233	2233	626
25°	2050	2047	2074	2086	2095	944
35°	1809	1818	1857	1881	1899	1131
45°	1509	1533	1587	1632	1668	1163
55°	1157	1199	1283	1373	1416	1033
65°	754	826	965	1088	1136	749
75°	352	460	628	685	661	375
85°	66	111	123	114	108	83
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2305.0	2305.0	2305.0	2305.0	2305.0
2.5°	2314.0	2299.0	2308.0	2305.0	2296.0
5°	2305.0	2293.0	2302.0	2299.0	2296.0
7.5°	2293.0	2281.0	2290.0	2287.0	2287.0
10°	2272.0	2263.0	2272.0	2272.0	2272.0
12.5°	2247.9	2238.9	2250.9	2253.9	2256.9
15°	2217.9	2208.9	2226.9	2232.9	2232.9
17.5°	2181.8	2175.8	2193.8	2199.8	2205.9
20°	2142.7	2139.7	2160.8	2166.8	2172.8
22.5°	2097.7	2097.7	2118.7	2124.7	2136.7
25°	2049.6	2046.6	2073.6	2085.6	2094.7
27.5°	1995.5	1995.5	2025.5	2040.6	2049.6
30°	1935.4	1941.4	1971.4	1989.5	2001.5
32.5°	1875.3	1881.3	1917.3	1938.4	1953.4
35°	1809.2	1818.2	1857.2	1881.3	1899.3
37.5°	1737.0	1752.1	1794.1	1821.2	1842.2
40°	1667.9	1679.9	1728.0	1758.1	1782.1
42.5°	1589.8	1610.8	1658.9	1695.0	1722.0
45°	1508.6	1532.7	1586.8	1631.9	1667.9
47.5°	1424.5	1454.5	1511.6	1571.7	1607.8
50°	1337.3	1370.4	1436.5	1508.6	1544.7
52.5°	1250.2	1286.2	1358.4	1442.5	1481.6
55°	1157.0	1199.1	1283.2	1373.4	1415.5
57.5°	1060.9	1108.9	1205.1	1307.3	1349.4
60°	964.7	1015.8	1130.0	1232.2	1280.2
62.5°	865.5	922.6	1045.8	1163.0	1208.1
65°	754.3	826.4	964.7	1087.9	1136.0
67.5°	652.1	727.3	886.5	1009.8	1060.9
70°	550.0	637.1	805.4	928.6	976.7
72.5°	447.8	550.0	715.2	841.5	868.5
75°	351.6	459.8	628.1	685.2	661.2
77.5°	258.5	378.7	528.9	498.9	492.9
80°	183.3	300.5	360.6	363.6	372.7
82.5°	117.2	222.4	234.4	237.4	240.4
85°	66.1	111.2	123.2	114.2	108.2
87.5°	30.1	36.1	30.1	21.0	18.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)