

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: P345075

Luminaire Tested: **24CZ-75-L835-HRP-UNV-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P345075
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-L835-HRP-UNV-CD1-U
Description: CRUZE 2X4 WITH HRP LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6358.6 lumens
Efficiency: N/A
Efficacy: 92.0 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

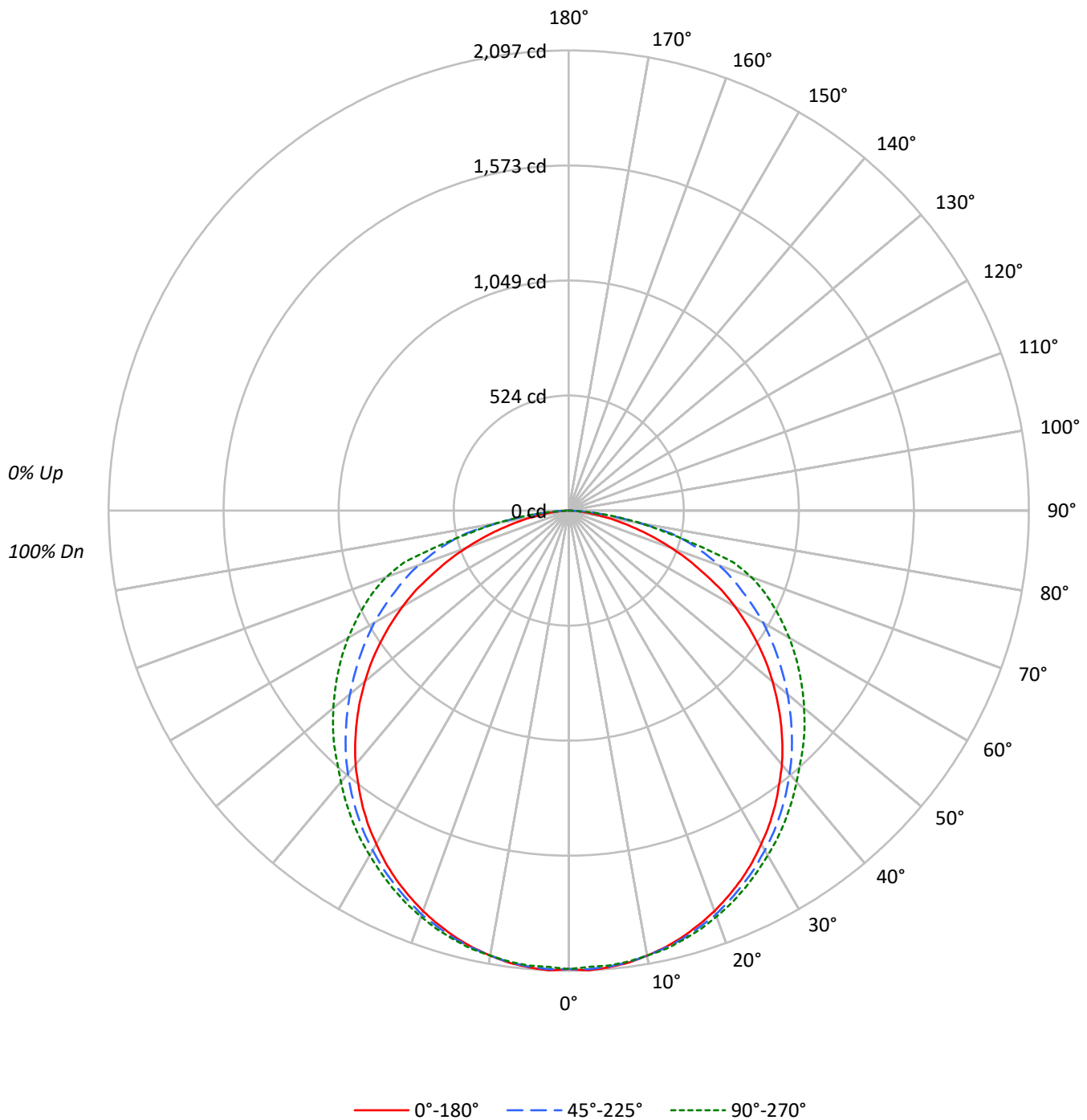
Input Watts (W): 69.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					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°	2811	2811	2811
5°	2822	2818	2811
10°	2813	2813	2813
15°	2800	2811	2819
20°	2781	2804	2820
25°	2758	2790	2818
30°	2725	2776	2818
35°	2693	2765	2828
40°	2655	2751	2837
45°	2602	2737	2876
50°	2537	2725	2930
55°	2460	2728	3009
60°	2353	2756	3122
65°	2177	2784	3278
70°	1961	2872	3482
75°	1657	2960	3115
80°	1288	2533	2617
85°	925	1724	1514



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	198.0	3.1
10°-20°	568.6	8.9
20°-30°	864.7	13.6
30°-40°	1050.6	16.5
40°-50°	1108.9	17.4
50°-60°	1041.9	16.4
60°-70°	857.8	13.5
70°-80°	540.4	8.5
80°-90°	127.6	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°	1631.4	25.7
0°-40°	2682.0	42.2
0°-60°	4832.8	76.0
0°-90°	6358.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6358.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2089	2089	2089	2089	2089	
5°	2089	2078	2086	2084	2081	199
15°	2010	2002	2018	2024	2024	567
25°	1858	1855	1879	1890	1898	856
35°	1640	1648	1683	1705	1722	1025
45°	1367	1389	1438	1479	1512	1054
55°	1049	1087	1163	1245	1283	936
65°	684	749	874	986	1030	679
75°	319	417	569	621	599	340
85°	60	101	112	104	98	75
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2089.2	2089.2	2089.2	2089.2	2089.2
2.5°	2097.3	2083.7	2091.9	2089.2	2081.0
5°	2089.2	2078.3	2086.4	2083.7	2081.0
7.5°	2078.3	2067.4	2075.5	2072.8	2072.8
10°	2059.2	2051.0	2059.2	2059.2	2059.2
12.5°	2037.4	2029.2	2040.1	2042.9	2045.6
15°	2010.2	2002.0	2018.3	2023.8	2023.8
17.5°	1977.5	1972.0	1988.4	1993.8	1999.3
20°	1942.1	1939.4	1958.4	1963.9	1969.3
22.5°	1901.2	1901.2	1920.3	1925.7	1936.6
25°	1857.6	1854.9	1879.4	1890.3	1898.5
27.5°	1808.6	1808.6	1835.9	1849.5	1857.6
30°	1754.1	1759.6	1786.8	1803.2	1814.1
32.5°	1699.7	1705.1	1737.8	1756.9	1770.5
35°	1639.7	1647.9	1683.3	1705.1	1721.5
37.5°	1574.4	1588.0	1626.1	1650.6	1669.7
40°	1511.7	1522.6	1566.2	1593.4	1615.2
42.5°	1440.9	1460.0	1503.5	1536.2	1560.7
45°	1367.4	1389.1	1438.2	1479.0	1511.7
47.5°	1291.1	1318.3	1370.1	1424.6	1457.2
50°	1212.1	1242.1	1302.0	1367.4	1400.0
52.5°	1133.1	1165.8	1231.2	1307.4	1342.8
55°	1048.7	1086.8	1163.1	1244.8	1282.9
57.5°	961.5	1005.1	1092.2	1184.9	1223.0
60°	874.3	920.6	1024.2	1116.8	1160.3
62.5°	784.5	836.2	947.9	1054.1	1095.0
65°	683.7	749.0	874.3	986.0	1029.6
67.5°	591.1	659.2	803.5	915.2	961.5
70°	498.5	577.4	730.0	841.7	885.2
72.5°	405.8	498.5	648.3	762.7	787.2
75°	318.7	416.7	569.3	621.0	599.2
77.5°	234.2	343.2	479.4	452.2	446.7
80°	166.2	272.4	326.9	329.6	337.8
82.5°	106.2	201.6	212.5	215.2	217.9
85°	59.9	100.8	111.7	103.5	98.1
87.5°	27.2	32.7	27.2	19.1	16.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)