

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: P345074

Luminaire Tested: **24CZ-75-L830-HRP-UNV-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P345074
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-L830-HRP-UNV-CD1-U
Description: CRUZE 2X4 WITH HRP LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6300.9 lumens
Efficiency: N/A
Efficacy: 91.2 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

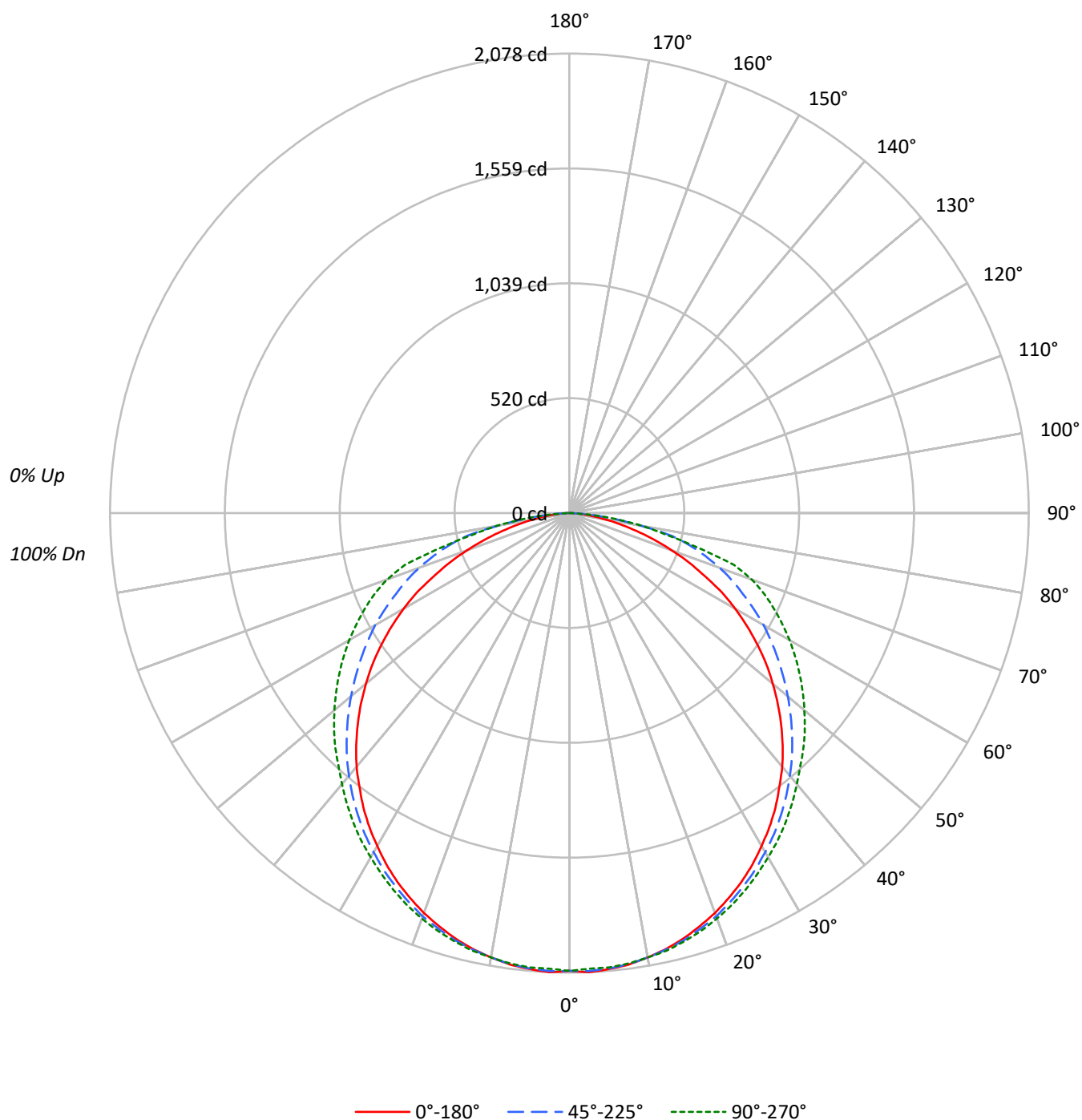
Input Watts (W): 69.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2785	2785	2785
5°	2796	2792	2785
10°	2788	2788	2788
15°	2775	2786	2793
20°	2755	2779	2794
25°	2733	2765	2793
30°	2701	2751	2793
35°	2669	2740	2802
40°	2631	2726	2811
45°	2578	2712	2850
50°	2514	2701	2904
55°	2438	2704	2982
60°	2331	2731	3094
65°	2157	2758	3248
70°	1943	2846	3451
75°	1642	2933	3087
80°	1275	2510	2593
85°	917	1709	1501



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	196.2	3.1
10°-20°	563.5	8.9
20°-30°	856.9	13.6
30°-40°	1041.1	16.5
40°-50°	1098.8	17.4
50°-60°	1032.5	16.4
60°-70°	850.0	13.5
70°-80°	535.5	8.5
80°-90°	126.4	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°	1616.6	25.7
0°-40°	2657.7	42.2
0°-60°	4788.9	76.0
0°-90°	6300.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6300.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2070	2070	2070	2070	2070	
5°	2070	2059	2068	2065	2062	197
15°	1992	1984	2000	2005	2005	562
25°	1841	1838	1862	1873	1881	848
35°	1625	1633	1668	1690	1706	1016
45°	1355	1376	1425	1466	1498	1045
55°	1039	1077	1152	1234	1271	928
65°	678	742	866	977	1020	673
75°	316	413	564	615	594	337
85°	59	100	111	103	97	75
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2070.2	2070.2	2070.2	2070.2	2070.2
2.5°	2078.3	2064.8	2072.9	2070.2	2062.1
5°	2070.2	2059.4	2067.5	2064.8	2062.1
7.5°	2059.4	2048.6	2056.7	2054.0	2054.0
10°	2040.5	2032.4	2040.5	2040.5	2040.5
12.5°	2018.9	2010.8	2021.6	2024.3	2027.0
15°	1991.9	1983.8	2000.0	2005.4	2005.4
17.5°	1959.5	1954.1	1970.3	1975.7	1981.1
20°	1924.4	1921.8	1940.6	1946.0	1951.4
22.5°	1884.0	1884.0	1902.9	1908.3	1919.1
25°	1840.8	1838.1	1862.4	1873.2	1881.3
27.5°	1792.2	1792.2	1819.2	1832.7	1840.8
30°	1738.2	1743.6	1770.6	1786.8	1797.6
32.5°	1684.2	1689.6	1722.0	1740.9	1754.4
35°	1624.9	1632.9	1668.0	1689.6	1705.8
37.5°	1560.1	1573.6	1611.4	1635.6	1654.5
40°	1498.0	1508.8	1552.0	1579.0	1600.6
42.5°	1427.8	1446.7	1489.9	1522.3	1546.6
45°	1354.9	1376.5	1425.1	1465.6	1498.0
47.5°	1279.4	1306.4	1357.6	1411.6	1444.0
50°	1201.1	1230.8	1290.2	1354.9	1387.3
52.5°	1122.8	1155.2	1220.0	1295.6	1330.7
55°	1039.1	1076.9	1152.5	1233.5	1271.3
57.5°	952.8	996.0	1082.3	1174.1	1211.9
60°	866.4	912.3	1014.9	1106.6	1149.8
62.5°	777.3	828.6	939.3	1044.5	1085.0
65°	677.5	742.2	866.4	977.1	1020.3
67.5°	585.7	653.2	796.2	906.9	952.8
70°	493.9	572.2	723.4	834.0	877.2
72.5°	402.2	493.9	642.4	755.7	780.0
75°	315.8	413.0	564.1	615.4	593.8
77.5°	232.1	340.1	475.0	448.0	442.7
80°	164.6	269.9	323.9	326.6	334.7
82.5°	105.3	199.7	210.5	213.2	215.9
85°	59.4	99.9	110.7	102.6	97.2
87.5°	27.0	32.4	27.0	18.9	16.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)