

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: P345071

Luminaire Tested: **24CZ-70-L835-HRP-UNV-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P345071
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-L835-HRP-UNV-CD1-U
Description: CRUZE 2X4 WITH HRP LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6013.1 lumens
Efficiency: N/A
Efficacy: 93.7 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

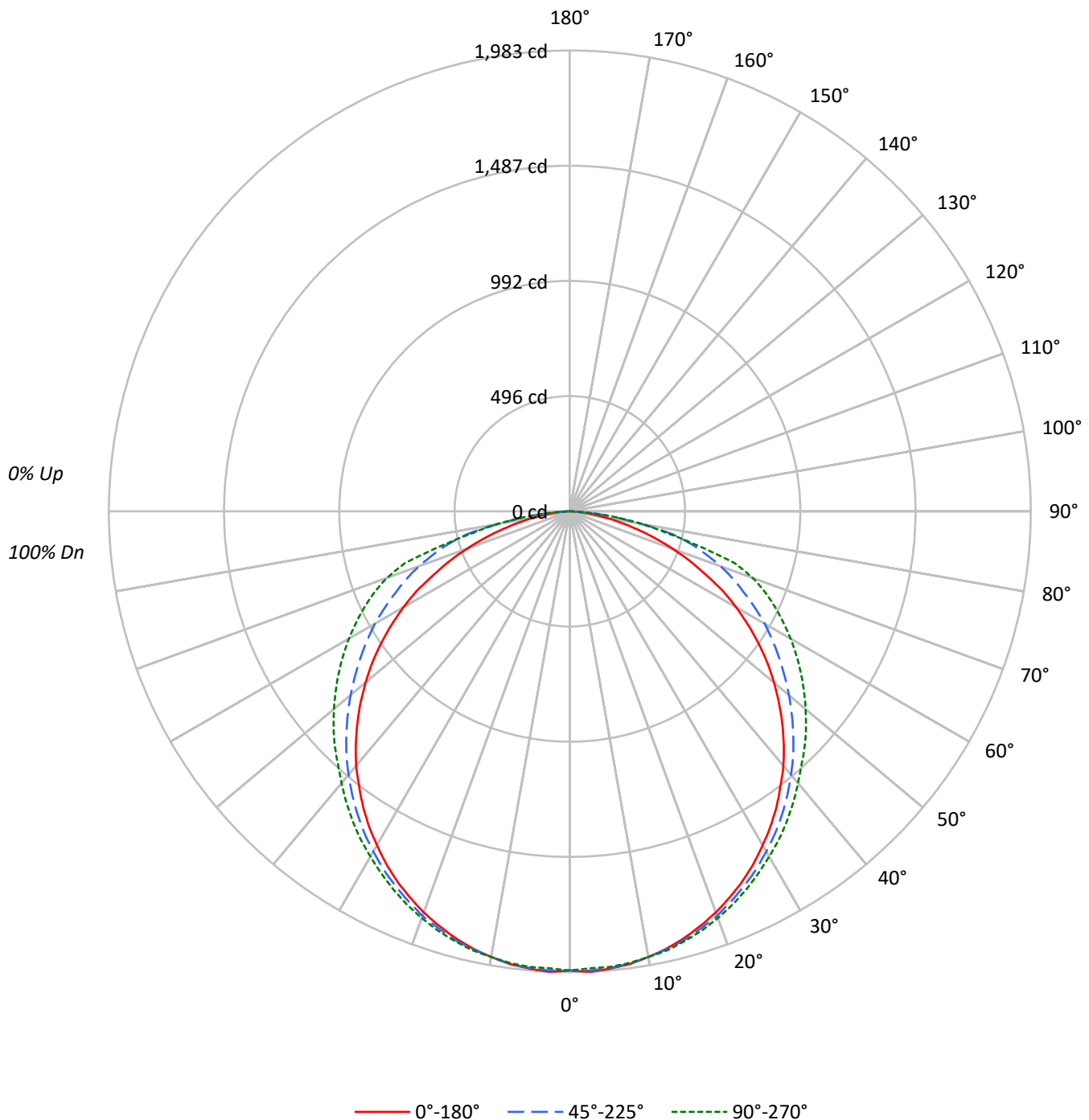
Input Watts (W): 64.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2658	2658	2658
5°	2668	2665	2658
10°	2660	2660	2660
15°	2648	2659	2666
20°	2630	2652	2667
25°	2608	2639	2665
30°	2577	2625	2665
35°	2547	2615	2674
40°	2511	2601	2683
45°	2461	2588	2720
50°	2399	2577	2771
55°	2326	2580	2846
60°	2225	2606	2953
65°	2058	2632	3100
70°	1854	2716	3293
75°	1567	2798	2946
80°	1217	2395	2475
85°	875	1630	1431



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	187.3	3.1
10°-20°	537.7	8.9
20°-30°	817.8	13.6
30°-40°	993.5	16.5
40°-50°	1048.6	17.4
50°-60°	985.3	16.4
60°-70°	811.2	13.5
70°-80°	511.0	8.5
80°-90°	120.7	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°	1542.8	25.7
0°-40°	2536.3	42.2
0°-60°	4570.3	76.0
0°-90°	6013.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6013.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1976	1976	1976	1976	1976	
5°	1976	1965	1973	1970	1968	188
15°	1901	1893	1909	1914	1914	536
25°	1757	1754	1777	1788	1795	809
35°	1551	1558	1592	1612	1628	969
45°	1293	1314	1360	1399	1430	997
55°	992	1028	1100	1177	1213	885
65°	646	708	827	932	974	642
75°	301	394	538	587	567	322
85°	57	95	106	98	93	71
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1975.7	1975.7	1975.7	1975.7	1975.7
2.5°	1983.4	1970.5	1978.2	1975.7	1967.9
5°	1975.7	1965.4	1973.1	1970.5	1967.9
7.5°	1965.4	1955.1	1962.8	1960.2	1960.2
10°	1947.3	1939.6	1947.3	1947.3	1947.3
12.5°	1926.7	1919.0	1929.3	1931.9	1934.4
15°	1901.0	1893.2	1908.7	1913.8	1913.8
17.5°	1870.0	1864.9	1880.4	1885.5	1890.7
20°	1836.6	1834.0	1852.0	1857.2	1862.3
22.5°	1797.9	1797.9	1816.0	1821.1	1831.4
25°	1756.7	1754.1	1777.3	1787.6	1795.3
27.5°	1710.3	1710.3	1736.1	1749.0	1756.7
30°	1658.8	1664.0	1689.7	1705.2	1715.5
32.5°	1607.3	1612.5	1643.4	1661.4	1674.3
35°	1550.6	1558.4	1591.9	1612.5	1627.9
37.5°	1488.8	1501.7	1537.8	1560.9	1579.0
40°	1429.6	1439.9	1481.1	1506.9	1527.5
42.5°	1362.6	1380.6	1421.9	1452.8	1475.9
45°	1293.1	1313.7	1360.0	1398.7	1429.6
47.5°	1220.9	1246.7	1295.6	1347.2	1378.1
50°	1146.2	1174.6	1231.2	1293.1	1324.0
52.5°	1071.5	1102.5	1164.3	1236.4	1269.9
55°	991.7	1027.8	1099.9	1177.2	1213.2
57.5°	909.3	950.5	1032.9	1120.5	1156.5
60°	826.8	870.6	968.5	1056.1	1097.3
62.5°	741.8	790.8	896.4	996.8	1035.5
65°	646.5	708.4	826.8	932.4	973.7
67.5°	559.0	623.3	759.9	865.5	909.3
70°	471.4	546.1	690.3	795.9	837.1
72.5°	383.8	471.4	613.0	721.2	744.4
75°	301.4	394.1	538.3	587.3	566.7
77.5°	221.5	324.6	453.3	427.6	422.4
80°	157.1	257.6	309.1	311.7	319.4
82.5°	100.5	190.6	200.9	203.5	206.1
85°	56.7	95.3	105.6	97.9	92.7
87.5°	25.8	30.9	25.8	18.0	15.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)