

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: P345058

Luminaire Tested: **24CZ-55-L830-HRP-UNV-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P345058
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-55-L830-HRP-UNV-CD1-U
Description: CRUZE 2X4 WITH HRP LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4629.5 lumens
Efficiency: N/A
Efficacy: 101.1 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

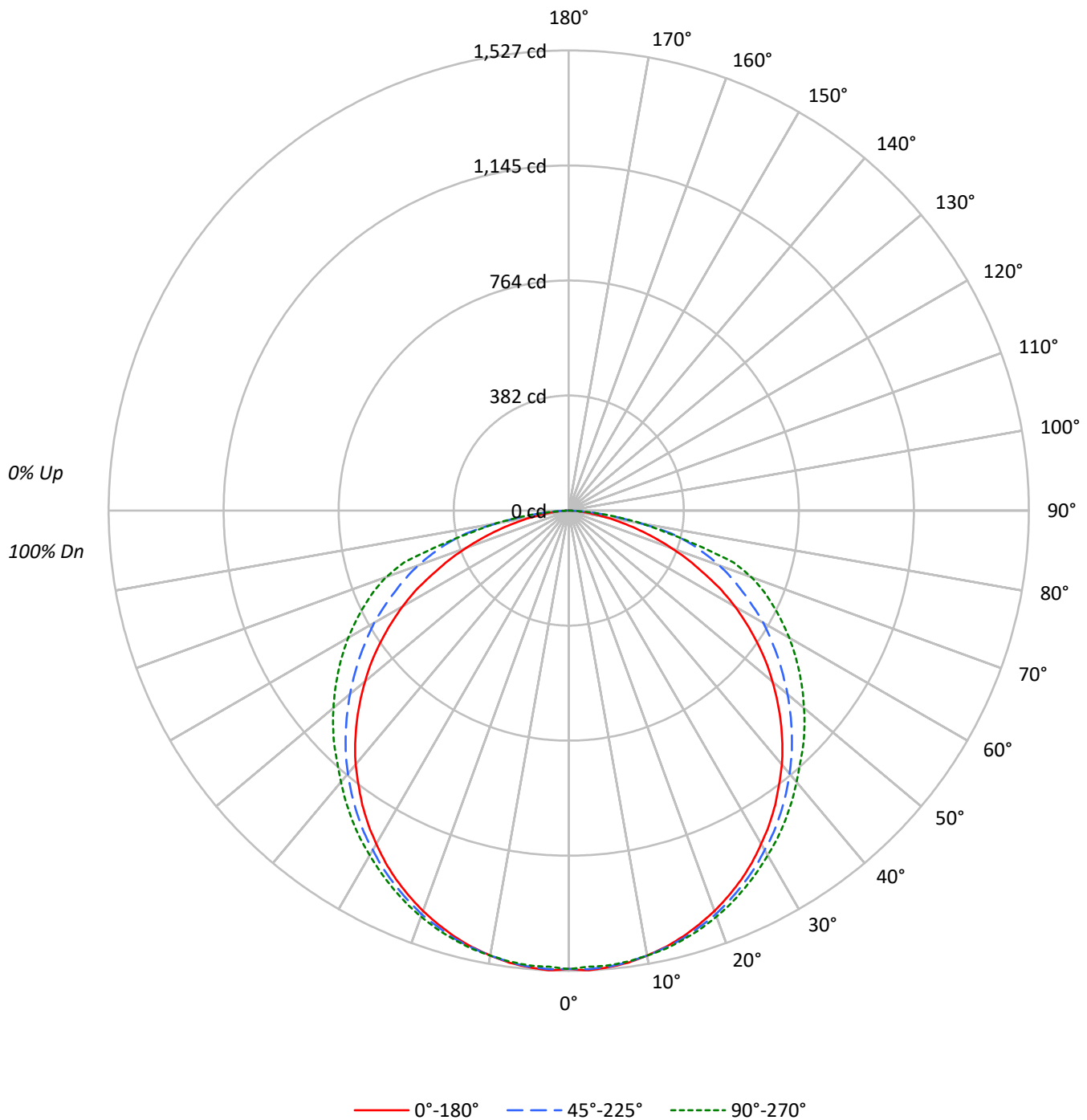
Input Watts (W): 45.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111			106	106	106			102
1	108	103	99	95	105	101	97	93		97	93	90			93	90	87			89
2	98	89	82	76	95	87	81	75		84	78	74			81	76	72			77
3	89	78	70	63	86	76	69	62		73	67	61			71	65	60			68
4	81	69	60	53	79	68	59	52		65	58	52			63	56	51			60
5	75	61	52	45	72	60	52	45		58	50	44			56	49	44			54
6	69	55	46	39	67	54	45	39		52	45	39			51	44	38			49
7	64	50	41	35	62	49	41	34		48	40	34			46	39	34			45
8	59	45	37	31	58	45	36	31		43	36	31			42	35	30			41
9	55	42	33	28	54	41	33	28		40	33	27			39	32	27			38
10	52	38	30	25	51	38	30	25		37	30	25			36	29	25			35

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2047	2047	2047
5°	2054	2052	2046
10°	2048	2048	2048
15°	2039	2047	2053
20°	2025	2042	2053
25°	2008	2032	2052
30°	1984	2021	2052
35°	1961	2013	2059
40°	1933	2003	2066
45°	1894	1992	2094
50°	1847	1984	2134
55°	1791	1986	2191
60°	1713	2007	2273
65°	1585	2027	2387
70°	1428	2091	2535
75°	1206	2155	2268
80°	938	1844	1905
85°	673	1255	1102



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.2	3.1
10°-20°	414.0	8.9
20°-30°	629.6	13.6
30°-40°	764.9	16.5
40°-50°	807.3	17.4
50°-60°	758.6	16.4
60°-70°	624.5	13.5
70°-80°	393.5	8.5
80°-90°	92.9	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°	1187.8	25.7
0°-40°	1952.7	42.2
0°-60°	3518.6	76.0
0°-90°	4629.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4629.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1521	1521	1521	1521	1521	
5°	1521	1513	1519	1517	1515	145
15°	1464	1458	1470	1474	1474	413
25°	1352	1350	1368	1376	1382	623
35°	1194	1200	1226	1241	1253	746
45°	996	1011	1047	1077	1101	768
55°	764	791	847	906	934	682
65°	498	545	637	718	750	494
75°	232	303	414	452	436	248
85°	44	73	81	75	71	55
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1521.1	1521.1	1521.1	1521.1	1521.1
2.5°	1527.0	1517.1	1523.0	1521.1	1515.1
5°	1521.1	1513.1	1519.1	1517.1	1515.1
7.5°	1513.1	1505.2	1511.2	1509.2	1509.2
10°	1499.3	1493.3	1499.3	1499.3	1499.3
12.5°	1483.4	1477.4	1485.4	1487.4	1489.3
15°	1463.6	1457.6	1469.5	1473.5	1473.5
17.5°	1439.8	1435.8	1447.7	1451.7	1455.6
20°	1414.0	1412.0	1425.9	1429.8	1433.8
22.5°	1384.2	1384.2	1398.1	1402.1	1410.0
25°	1352.5	1350.5	1368.4	1376.3	1382.2
27.5°	1316.8	1316.8	1336.6	1346.5	1352.5
30°	1277.1	1281.1	1300.9	1312.8	1320.8
32.5°	1237.5	1241.4	1265.2	1279.1	1289.0
35°	1193.8	1199.8	1225.6	1241.4	1253.3
37.5°	1146.3	1156.2	1183.9	1201.8	1215.7
40°	1100.6	1108.6	1140.3	1160.1	1176.0
42.5°	1049.1	1063.0	1094.7	1118.5	1136.3
45°	995.5	1011.4	1047.1	1076.8	1100.6
47.5°	940.0	959.8	997.5	1037.2	1061.0
50°	882.5	904.3	947.9	995.5	1019.3
52.5°	825.0	848.8	896.4	951.9	977.7
55°	763.5	791.3	846.8	906.3	934.1
57.5°	700.0	731.8	795.2	862.7	890.4
60°	636.6	670.3	745.7	813.1	844.8
62.5°	571.1	608.8	690.1	767.5	797.2
65°	497.8	545.4	636.6	717.9	749.6
67.5°	430.3	479.9	585.0	666.3	700.0
70°	362.9	420.4	531.5	612.8	644.5
72.5°	295.5	362.9	472.0	555.3	573.1
75°	232.0	303.4	414.5	452.2	436.3
77.5°	170.5	249.9	349.0	329.2	325.2
80°	121.0	198.3	238.0	240.0	245.9
82.5°	77.3	146.8	154.7	156.7	158.7
85°	43.6	73.4	81.3	75.4	71.4
87.5°	19.8	23.8	19.8	13.9	11.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)