

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: P345101

Luminaire Tested: **24CZ-55SE-L850-HRP-UNV-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P345101
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-55SE-L850-HRP-UNV-CD1-U
Description: CRUZE 2X4 WITH HRP LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5189.7 lumens
Efficiency: N/A
Efficacy: 94.9 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

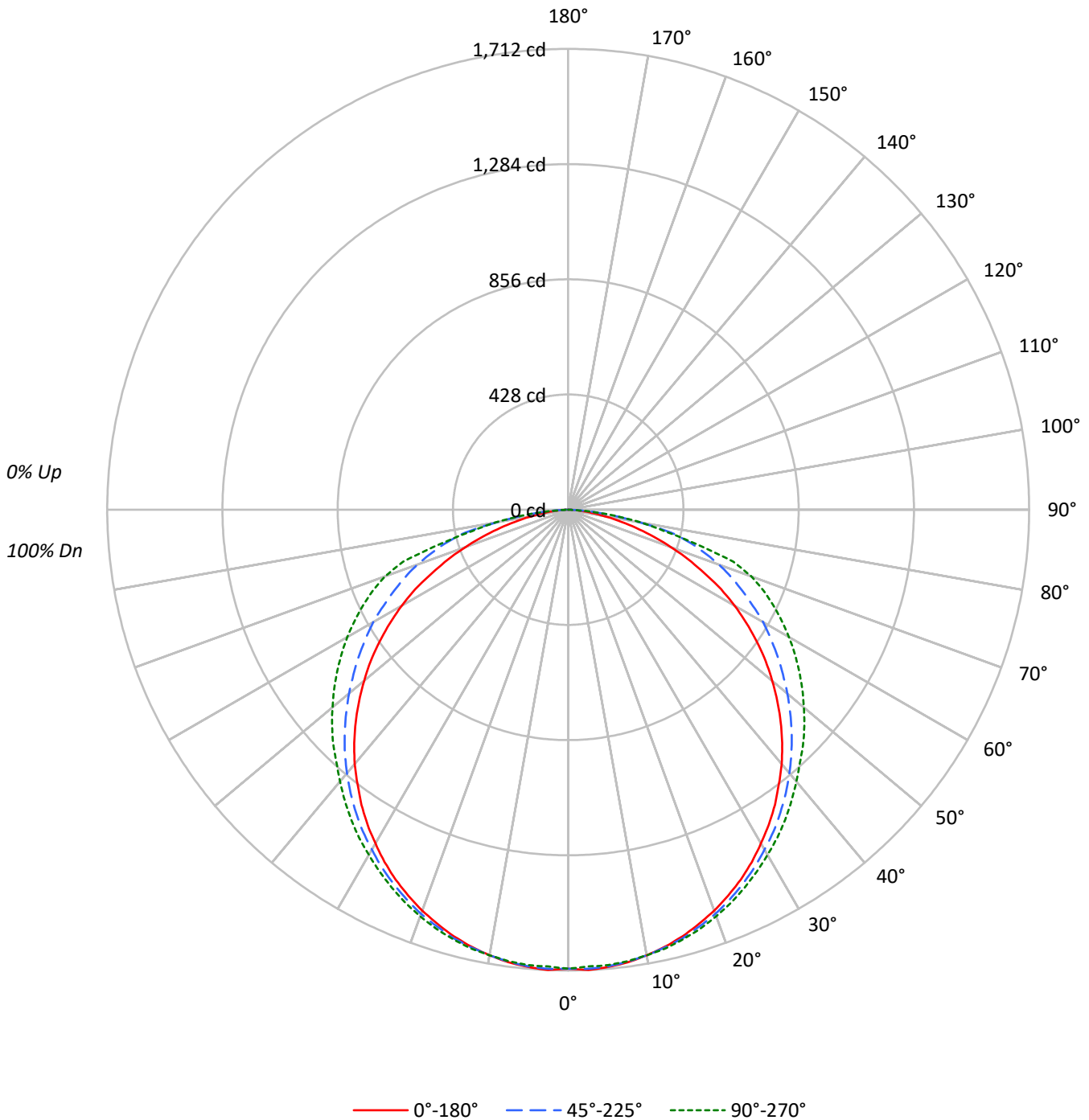
Input Watts (W): 54.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0	
RW	70	50	30	10		70	50	30	10		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				102	102	102	100
1	108	103	99	95		105	101	97	93		97	93	90		93	90	87				89	87	85	83
2	98	89	82	76		95	87	81	75		84	78	74		81	76	72				77	74	70	68
3	89	78	70	63		86	76	69	62		73	67	61		71	65	60				68	63	59	57
4	81	69	60	53		79	68	59	52		65	58	52		63	56	51				60	55	50	48
5	75	61	52	45		72	60	52	45		58	50	44		56	49	44				54	48	43	41
6	69	55	46	39		67	54	45	39		52	45	39		51	44	38				49	43	38	36
7	64	50	41	35		62	49	41	34		48	40	34		46	39	34				45	38	34	32
8	59	45	37	31		58	45	36	31		43	36	31		42	35	30				41	35	30	28
9	55	42	33	28		54	41	33	28		40	33	27		39	32	27				38	32	27	25
10	52	38	30	25		51	38	30	25		37	30	25		36	29	25				35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2294	2294	2294
5°	2303	2300	2294
10°	2296	2296	2296
15°	2285	2295	2301
20°	2270	2289	2301
25°	2251	2277	2300
30°	2224	2266	2300
35°	2198	2257	2308
40°	2167	2245	2315
45°	2124	2234	2348
50°	2071	2224	2392
55°	2008	2227	2456
60°	1920	2249	2548
65°	1777	2272	2675
70°	1600	2344	2842
75°	1352	2415	2543
80°	1051	2067	2136
85°	755	1406	1235



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.6	3.1
10°-20°	464.1	8.9
20°-30°	705.8	13.6
30°-40°	857.5	16.5
40°-50°	905.0	17.4
50°-60°	850.4	16.4
60°-70°	700.1	13.5
70°-80°	441.1	8.5
80°-90°	104.1	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°	1331.5	25.7
0°-40°	2189.0	42.2
0°-60°	3944.5	76.0
0°-90°	5189.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5189.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1705	1705	1705	1705	1705	
5°	1705	1696	1703	1701	1698	162
15°	1641	1634	1647	1652	1652	463
25°	1516	1514	1534	1543	1550	698
35°	1338	1345	1374	1392	1405	837
45°	1116	1134	1174	1207	1234	860
55°	856	887	949	1016	1047	764
65°	558	611	714	805	840	554
75°	260	340	465	507	489	278
85°	49	82	91	84	80	61
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1705.1	1705.1	1705.1	1705.1	1705.1
2.5°	1711.8	1700.7	1707.4	1705.1	1698.5
5°	1705.1	1696.2	1702.9	1700.7	1698.5
7.5°	1696.2	1687.3	1694.0	1691.8	1691.8
10°	1680.7	1674.0	1680.7	1680.7	1680.7
12.5°	1662.9	1656.2	1665.1	1667.3	1669.6
15°	1640.7	1634.0	1647.3	1651.8	1651.8
17.5°	1614.0	1609.5	1622.9	1627.3	1631.8
20°	1585.1	1582.9	1598.4	1602.9	1607.3
22.5°	1551.7	1551.7	1567.3	1571.7	1580.6
25°	1516.2	1513.9	1534.0	1542.8	1549.5
27.5°	1476.2	1476.2	1498.4	1509.5	1516.2
30°	1431.7	1436.1	1458.4	1471.7	1480.6
32.5°	1387.2	1391.7	1418.4	1433.9	1445.0
35°	1338.3	1345.0	1373.9	1391.7	1405.0
37.5°	1285.0	1296.1	1327.2	1347.2	1362.8
40°	1233.8	1242.7	1278.3	1300.5	1318.3
42.5°	1176.0	1191.6	1227.2	1253.8	1273.8
45°	1116.0	1133.8	1173.8	1207.2	1233.8
47.5°	1053.8	1076.0	1118.2	1162.7	1189.4
50°	989.3	1013.7	1062.7	1116.0	1142.7
52.5°	924.8	951.5	1004.9	1067.1	1096.0
55°	855.9	887.0	949.3	1016.0	1047.1
57.5°	784.8	820.3	891.5	967.1	998.2
60°	713.6	751.4	835.9	911.5	947.0
62.5°	640.3	682.5	773.6	860.3	893.7
65°	558.0	611.4	713.6	804.8	840.3
67.5°	482.4	538.0	655.8	747.0	784.8
70°	406.8	471.3	595.8	686.9	722.5
72.5°	331.2	406.8	529.1	622.5	642.5
75°	260.1	340.1	464.6	506.9	489.1
77.5°	191.2	280.1	391.3	369.0	364.6
80°	135.6	222.3	266.8	269.0	275.7
82.5°	86.7	164.5	173.4	175.6	177.8
85°	48.9	82.3	91.1	84.5	80.0
87.5°	22.2	26.7	22.2	15.6	13.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)