

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: P345099

Luminaire Tested: **24CZ-55SE-L835-HRP-UNV-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P345099
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-L835-HRP-UNV-CD1-U
Description: CRUZE 2X4 WITH HRP LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4703.4 lumens
Efficiency: N/A
Efficacy: 86.0 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

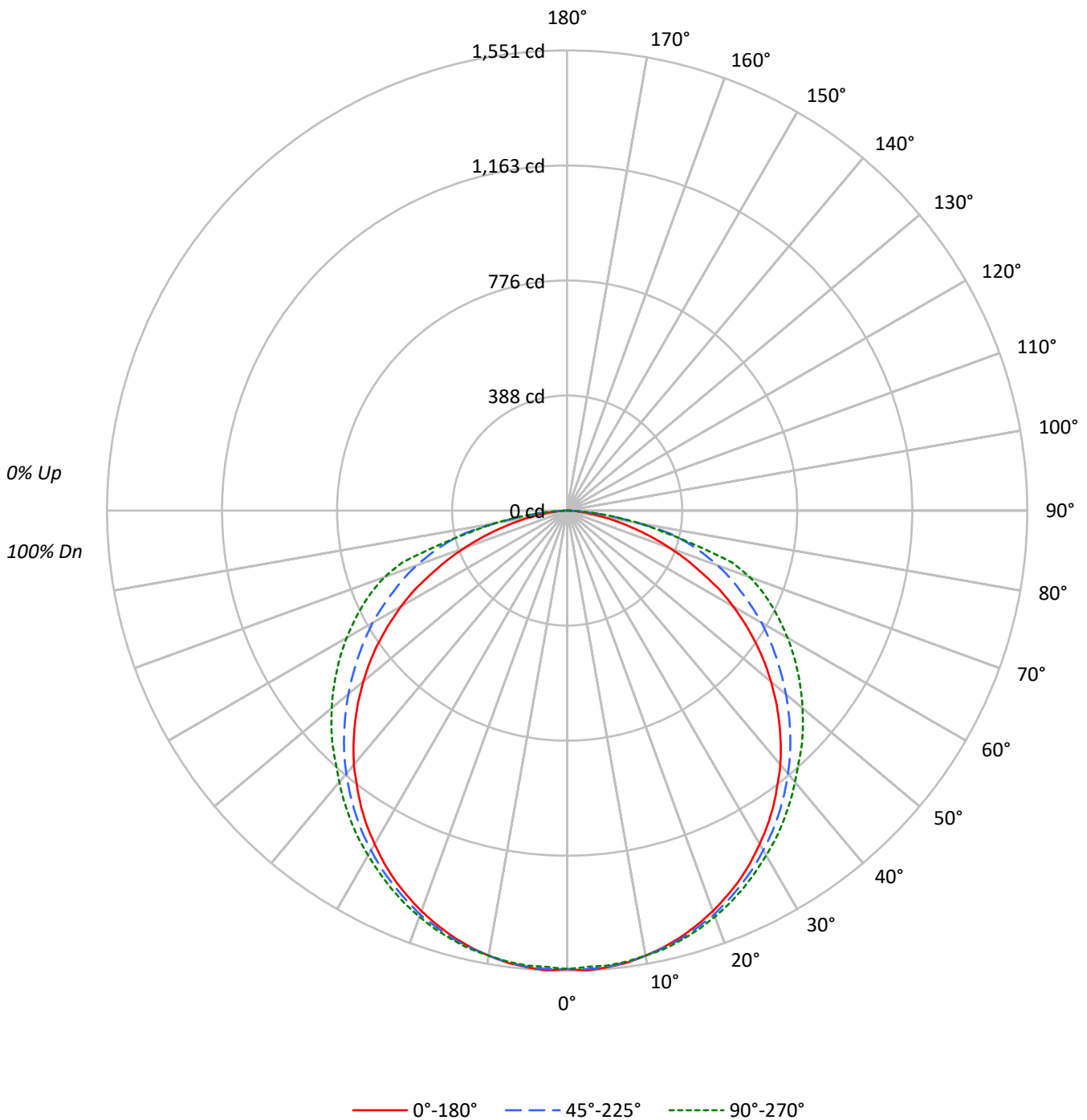
Input Watts (W): 54.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
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°	2079	2079	2079
5°	2087	2084	2079
10°	2081	2081	2081
15°	2071	2080	2085
20°	2057	2074	2086
25°	2040	2064	2085
30°	2016	2053	2085
35°	1992	2045	2091
40°	1964	2035	2099
45°	1925	2024	2128
50°	1877	2016	2168
55°	1820	2018	2226
60°	1740	2039	2310
65°	1610	2059	2425
70°	1450	2124	2576
75°	1225	2189	2304
80°	952	1874	1936
85°	684	1275	1119



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.5	3.1
10°-20°	420.6	8.9
20°-30°	639.6	13.6
30°-40°	777.1	16.5
40°-50°	820.2	17.4
50°-60°	770.7	16.4
60°-70°	634.5	13.5
70°-80°	399.7	8.5
80°-90°	94.4	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°	1206.7	25.7
0°-40°	1983.8	42.2
0°-60°	3574.8	76.0
0°-90°	4703.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4703.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1545	1545	1545	1545	1545	
5°	1545	1537	1543	1541	1539	147
15°	1487	1481	1493	1497	1497	419
25°	1374	1372	1390	1398	1404	633
35°	1213	1219	1245	1261	1273	758
45°	1011	1028	1064	1094	1118	780
55°	776	804	860	921	949	692
65°	506	554	647	729	762	502
75°	236	308	421	459	443	252
85°	44	74	83	77	72	56
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1545.3	1545.3	1545.3	1545.3	1545.3
2.5°	1551.4	1541.3	1547.3	1545.3	1539.3
5°	1545.3	1537.3	1543.3	1541.3	1539.3
7.5°	1537.3	1529.2	1535.3	1533.2	1533.2
10°	1523.2	1517.1	1523.2	1523.2	1523.2
12.5°	1507.0	1501.0	1509.1	1511.1	1513.1
15°	1486.9	1480.9	1492.9	1497.0	1497.0
17.5°	1462.7	1458.7	1470.8	1474.8	1478.8
20°	1436.5	1434.5	1448.6	1452.6	1456.7
22.5°	1406.3	1406.3	1420.4	1424.4	1432.5
25°	1374.1	1372.1	1390.2	1398.3	1404.3
27.5°	1337.8	1337.8	1358.0	1368.0	1374.1
30°	1297.5	1301.5	1321.7	1333.8	1341.8
32.5°	1257.2	1261.2	1285.4	1299.5	1309.6
35°	1212.9	1218.9	1245.1	1261.2	1273.3
37.5°	1164.5	1174.6	1202.8	1221.0	1235.1
40°	1118.2	1126.3	1158.5	1178.6	1194.8
42.5°	1065.8	1079.9	1112.2	1136.3	1154.5
45°	1011.4	1027.5	1063.8	1094.0	1118.2
47.5°	955.0	975.1	1013.4	1053.7	1077.9
50°	896.6	918.7	963.1	1011.4	1035.6
52.5°	838.1	862.3	910.7	967.1	993.3
55°	775.7	803.9	860.3	920.8	949.0
57.5°	711.2	743.5	807.9	876.4	904.6
60°	646.7	681.0	757.6	826.1	858.3
62.5°	580.3	618.5	701.1	779.7	809.9
65°	505.7	554.1	646.7	729.3	761.6
67.5°	437.2	487.6	594.4	677.0	711.2
70°	368.7	427.1	540.0	622.6	654.8
72.5°	300.2	368.7	479.5	564.1	582.3
75°	235.7	308.3	421.1	459.4	443.2
77.5°	173.3	253.9	354.6	334.5	330.4
80°	122.9	201.5	241.8	243.8	249.8
82.5°	78.6	149.1	157.2	159.2	161.2
85°	44.3	74.5	82.6	76.6	72.5
87.5°	20.1	24.2	20.1	14.1	12.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)