

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: P345059

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P345059
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-L835-HRP-UNV-CD1-U
Description: CRUZE 2X4 WITH HRP LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4672.0 lumens
Efficiency: N/A
Efficacy: 102.0 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

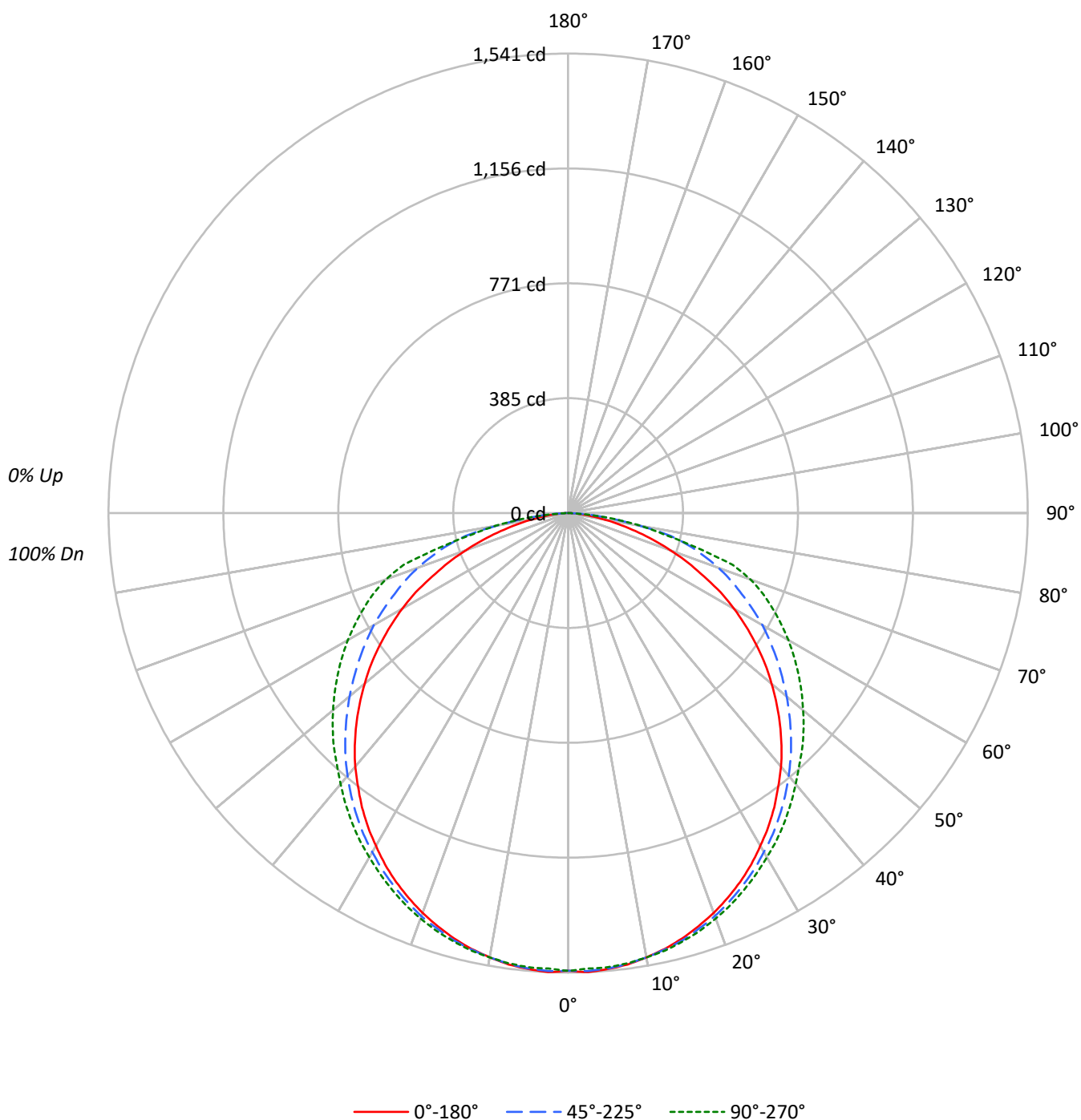
Input Watts (W): 45.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2065	2065	2065
5°	2073	2071	2065
10°	2067	2067	2067
15°	2057	2066	2071
20°	2043	2060	2072
25°	2026	2050	2071
30°	2002	2040	2071
35°	1979	2031	2077
40°	1951	2021	2085
45°	1912	2011	2113
50°	1864	2002	2153
55°	1807	2005	2211
60°	1729	2025	2294
65°	1599	2045	2408
70°	1441	2110	2559
75°	1218	2175	2289
80°	946	1861	1923
85°	679	1267	1112



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.5	3.1
10°-20°	417.8	8.9
20°-30°	635.4	13.6
30°-40°	771.9	16.5
40°-50°	814.7	17.4
50°-60°	765.6	16.4
60°-70°	630.2	13.5
70°-80°	397.1	8.5
80°-90°	93.8	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°	1198.7	25.7
0°-40°	1970.6	42.2
0°-60°	3550.9	76.0
0°-90°	4672.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4672.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1535	1535	1535	1535	1535	
5°	1535	1527	1533	1531	1529	146
15°	1477	1471	1483	1487	1487	417
25°	1365	1363	1381	1389	1395	629
35°	1205	1211	1237	1253	1265	753
45°	1005	1021	1057	1087	1111	775
55°	770	798	855	915	943	688
65°	502	550	642	724	756	499
75°	234	306	418	456	440	250
85°	44	74	82	76	72	55
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1535.0	1535.0	1535.0	1535.0	1535.0
2.5°	1541.0	1531.0	1537.0	1535.0	1529.0
5°	1535.0	1527.0	1533.0	1531.0	1529.0
7.5°	1527.0	1519.0	1525.0	1523.0	1523.0
10°	1513.0	1507.0	1513.0	1513.0	1513.0
12.5°	1497.0	1491.0	1499.0	1501.0	1503.0
15°	1477.0	1471.0	1483.0	1487.0	1487.0
17.5°	1453.0	1449.0	1461.0	1465.0	1469.0
20°	1426.9	1424.9	1438.9	1442.9	1447.0
22.5°	1396.9	1396.9	1410.9	1414.9	1422.9
25°	1364.9	1362.9	1380.9	1388.9	1394.9
27.5°	1328.9	1328.9	1348.9	1358.9	1364.9
30°	1288.8	1292.9	1312.9	1324.9	1332.9
32.5°	1248.8	1252.8	1276.8	1290.8	1300.9
35°	1204.8	1210.8	1236.8	1252.8	1264.8
37.5°	1156.8	1166.8	1194.8	1212.8	1226.8
40°	1110.7	1118.7	1150.8	1170.8	1186.8
42.5°	1058.7	1072.7	1104.7	1128.7	1146.8
45°	1004.7	1020.7	1056.7	1086.7	1110.7
47.5°	948.6	968.6	1006.7	1046.7	1070.7
50°	890.6	912.6	956.6	1004.7	1028.7
52.5°	832.5	856.6	904.6	960.6	986.6
55°	770.5	798.5	854.6	914.6	942.6
57.5°	706.5	738.5	802.5	870.6	898.6
60°	642.4	676.4	752.5	820.5	852.6
62.5°	576.4	614.4	696.5	774.5	804.5
65°	502.3	550.4	642.4	724.5	756.5
67.5°	434.3	484.3	590.4	672.4	706.5
70°	366.2	424.3	536.4	618.4	650.4
72.5°	298.2	366.2	476.3	560.4	578.4
75°	234.2	306.2	418.3	456.3	440.3
77.5°	172.1	252.2	352.2	332.2	328.2
80°	122.1	200.1	240.2	242.2	248.2
82.5°	78.1	148.1	156.1	158.1	160.1
85°	44.0	74.0	82.1	76.1	72.0
87.5°	20.0	24.0	20.0	14.0	12.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)