

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: P345047

Luminaire Tested: **24CZ-40-L835-HRP-UNV-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P345047
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-40-L835-HRP-UNV-CD1-U
Description: CRUZE 2X4 WITH HRP LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3364.8 lumens
Efficiency: N/A
Efficacy: 116.0 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

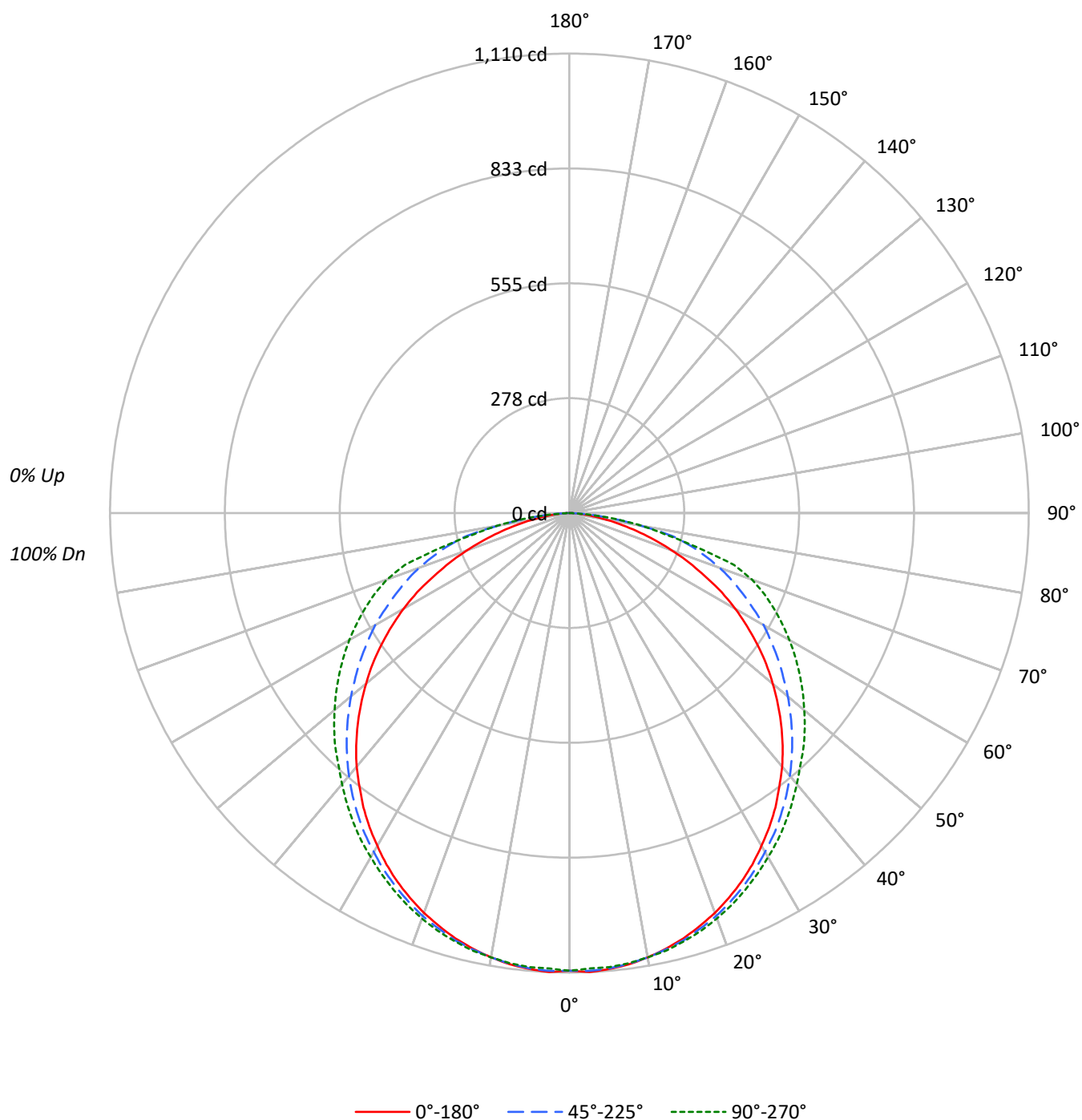
Input Watts (W): 29
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1487	1487	1487
5°	1493	1491	1487
10°	1489	1489	1489
15°	1482	1488	1492
20°	1472	1484	1492
25°	1459	1476	1491
30°	1442	1469	1491
35°	1425	1463	1496
40°	1405	1456	1501
45°	1377	1448	1522
50°	1343	1442	1551
55°	1302	1444	1593
60°	1245	1458	1652
65°	1152	1473	1734
70°	1038	1520	1843
75°	876	1566	1648
80°	681	1340	1385
85°	489	912	801



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.8	3.1
10°-20°	300.9	8.9
20°-30°	457.6	13.6
30°-40°	556.0	16.5
40°-50°	586.8	17.4
50°-60°	551.4	16.4
60°-70°	453.9	13.5
70°-80°	286.0	8.5
80°-90°	67.5	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°	863.3	25.7
0°-40°	1419.2	42.2
0°-60°	2557.4	76.0
0°-90°	3364.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3364.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1106	1106	1106	1106	1106	
5°	1106	1100	1104	1103	1101	105
15°	1064	1059	1068	1071	1071	300
25°	983	982	994	1000	1005	453
35°	868	872	891	902	911	542
45°	724	735	761	783	800	558
55°	555	575	616	659	679	495
65°	362	396	463	522	545	359
75°	169	220	301	329	317	180
85°	32	53	59	55	52	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1105.5	1105.5	1105.5	1105.5	1105.5
2.5°	1109.8	1102.6	1107.0	1105.5	1101.2
5°	1105.5	1099.8	1104.1	1102.6	1101.2
7.5°	1099.8	1094.0	1098.3	1096.9	1096.9
10°	1089.7	1085.3	1089.7	1089.7	1089.7
12.5°	1078.1	1073.8	1079.6	1081.0	1082.5
15°	1063.7	1059.4	1068.0	1070.9	1070.9
17.5°	1046.4	1043.5	1052.2	1055.1	1058.0
20°	1027.7	1026.2	1036.3	1039.2	1042.1
22.5°	1006.1	1006.1	1016.2	1019.0	1024.8
25°	983.0	981.6	994.5	1000.3	1004.6
27.5°	957.1	957.1	971.5	978.7	983.0
30°	928.2	931.1	945.5	954.2	959.9
32.5°	899.4	902.3	919.6	929.7	936.9
35°	867.7	872.0	890.8	902.3	910.9
37.5°	833.1	840.3	860.5	873.5	883.6
40°	800.0	805.7	828.8	843.2	854.7
42.5°	762.5	772.6	795.6	812.9	825.9
45°	723.6	735.1	761.0	782.7	800.0
47.5°	683.2	697.6	725.0	753.8	771.1
50°	641.4	657.3	689.0	723.6	740.9
52.5°	599.6	616.9	651.5	691.9	710.6
55°	554.9	575.1	615.5	658.7	678.9
57.5°	508.8	531.9	578.0	627.0	647.2
60°	462.7	487.2	541.9	591.0	614.0
62.5°	415.1	442.5	501.6	557.8	579.4
65°	361.8	396.4	462.7	521.8	544.8
67.5°	312.8	348.8	425.2	484.3	508.8
70°	263.8	305.6	386.3	445.4	468.4
72.5°	214.8	263.8	343.0	403.6	416.6
75°	168.6	220.5	301.2	328.6	317.1
77.5°	124.0	181.6	253.7	239.3	236.4
80°	87.9	144.1	173.0	174.4	178.7
82.5°	56.2	106.7	112.4	113.9	115.3
85°	31.7	53.3	59.1	54.8	51.9
87.5°	14.4	17.3	14.4	10.1	8.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)