

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: P345046

Luminaire Tested: **24CZ-40-L830-HRP-UNV-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P345046
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-L830-HRP-UNV-CD1-U
Description: CRUZE 2X4 WITH HRP LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3334.2 lumens
Efficiency: N/A
Efficacy: 115.0 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

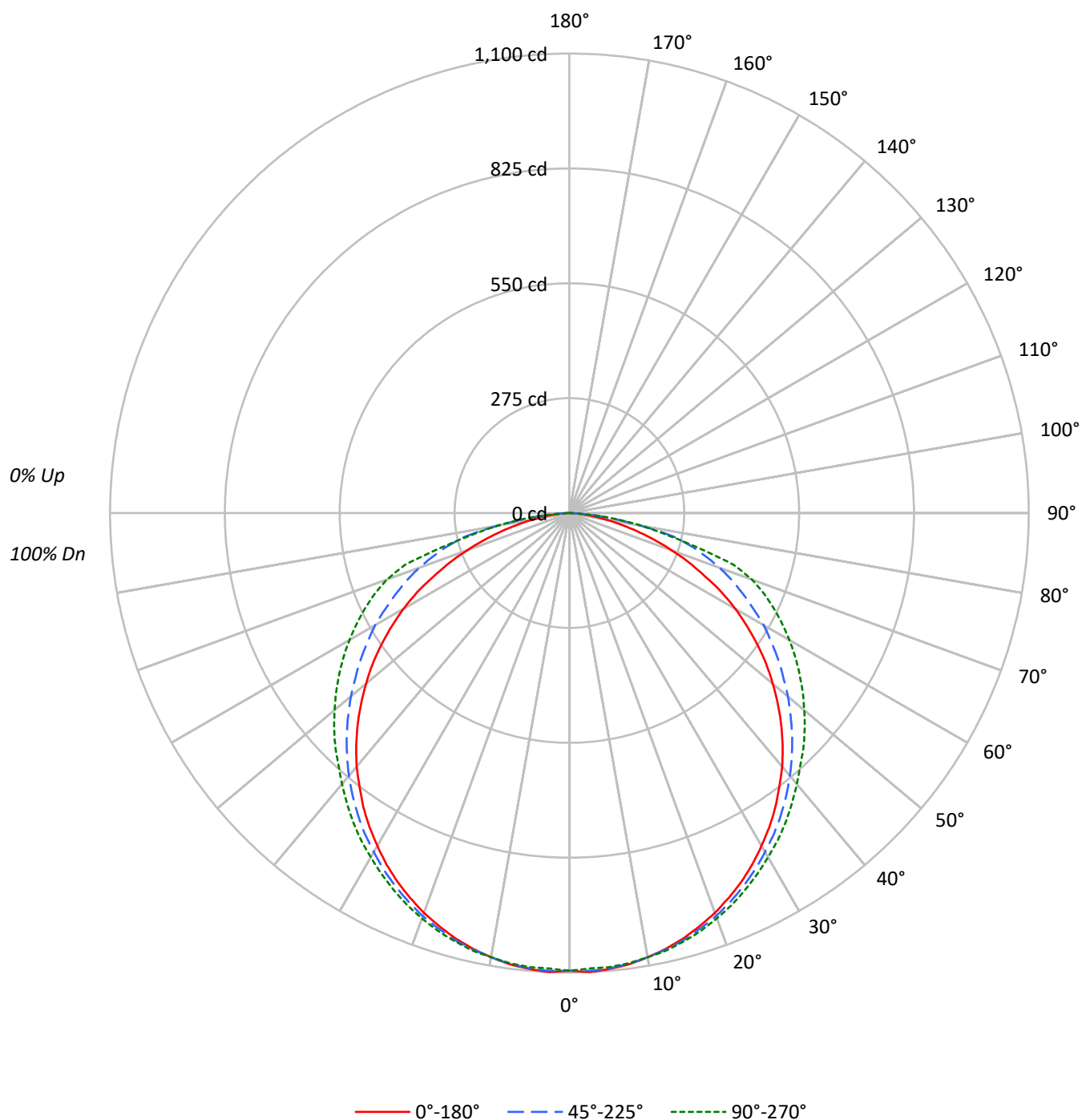
Input Watts (W): 29
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					10
RW	70	50	30	10	70	50	30	10	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	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°	1474	1474	1474
5°	1480	1478	1474
10°	1475	1475	1475
15°	1468	1474	1478
20°	1458	1470	1479
25°	1446	1463	1478
30°	1429	1456	1478
35°	1412	1450	1483
40°	1392	1443	1488
45°	1364	1435	1508
50°	1330	1429	1537
55°	1290	1431	1578
60°	1234	1445	1637
65°	1141	1460	1719
70°	1028	1506	1826
75°	869	1552	1633
80°	675	1328	1372
85°	485	905	794



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.8	3.1
10°-20°	298.2	8.9
20°-30°	453.4	13.6
30°-40°	550.9	16.5
40°-50°	581.4	17.4
50°-60°	546.4	16.4
60°-70°	449.8	13.5
70°-80°	283.4	8.5
80°-90°	66.9	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°	855.4	25.7
0°-40°	1406.3	42.2
0°-60°	2534.2	76.0
0°-90°	3334.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3334.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1096	1096	1096	1096	1096	
5°	1096	1090	1094	1093	1091	104
15°	1054	1050	1058	1061	1061	297
25°	974	973	986	991	996	449
35°	860	864	883	894	903	538
45°	717	728	754	776	793	553
55°	550	570	610	653	673	491
65°	358	393	458	517	540	356
75°	167	218	298	326	314	178
85°	31	53	59	54	51	39
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1095.5	1095.5	1095.5	1095.5	1095.5
2.5°	1099.8	1092.6	1096.9	1095.5	1091.2
5°	1095.5	1089.8	1094.1	1092.6	1091.2
7.5°	1089.8	1084.1	1088.3	1086.9	1086.9
10°	1079.8	1075.5	1079.8	1079.8	1079.8
12.5°	1068.3	1064.1	1069.8	1071.2	1072.6
15°	1054.1	1049.8	1058.3	1061.2	1061.2
17.5°	1036.9	1034.1	1042.6	1045.5	1048.3
20°	1018.4	1016.9	1026.9	1029.8	1032.6
22.5°	996.9	996.9	1006.9	1009.8	1015.5
25°	974.1	972.6	985.5	991.2	995.5
27.5°	948.4	948.4	962.7	969.8	974.1
30°	919.8	922.7	936.9	945.5	951.2
32.5°	891.2	894.1	911.2	921.2	928.4
35°	859.8	864.1	882.7	894.1	902.7
37.5°	825.5	832.7	852.7	865.5	875.5
40°	792.7	798.4	821.3	835.5	847.0
42.5°	755.6	765.6	788.4	805.5	818.4
45°	717.0	728.4	754.1	775.5	792.7
47.5°	677.0	691.3	718.4	747.0	764.1
50°	635.6	651.3	682.7	717.0	734.1
52.5°	594.2	611.3	645.6	685.6	704.1
55°	549.9	569.9	609.9	652.7	672.7
57.5°	504.2	527.0	572.7	621.3	641.3
60°	458.5	482.8	537.0	585.6	608.4
62.5°	411.3	438.5	497.0	552.7	574.2
65°	358.5	392.8	458.5	517.0	539.9
67.5°	309.9	345.6	421.3	479.9	504.2
70°	261.4	302.8	382.8	441.3	464.2
72.5°	212.8	261.4	339.9	399.9	412.8
75°	167.1	218.5	298.5	325.6	314.2
77.5°	122.8	180.0	251.4	237.1	234.2
80°	87.1	142.8	171.4	172.8	177.1
82.5°	55.7	105.7	111.4	112.8	114.3
85°	31.4	52.8	58.6	54.3	51.4
87.5°	14.3	17.1	14.3	10.0	8.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)