

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: P345038

Luminaire Tested: **24CZ-30-L830-HRP-UNV-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P345038
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-30-L830-HRP-UNV-CD1-U
Description: CRUZE 2X4 WITH HRP LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2532.1 lumens
Efficiency: N/A
Efficacy: 117.2 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

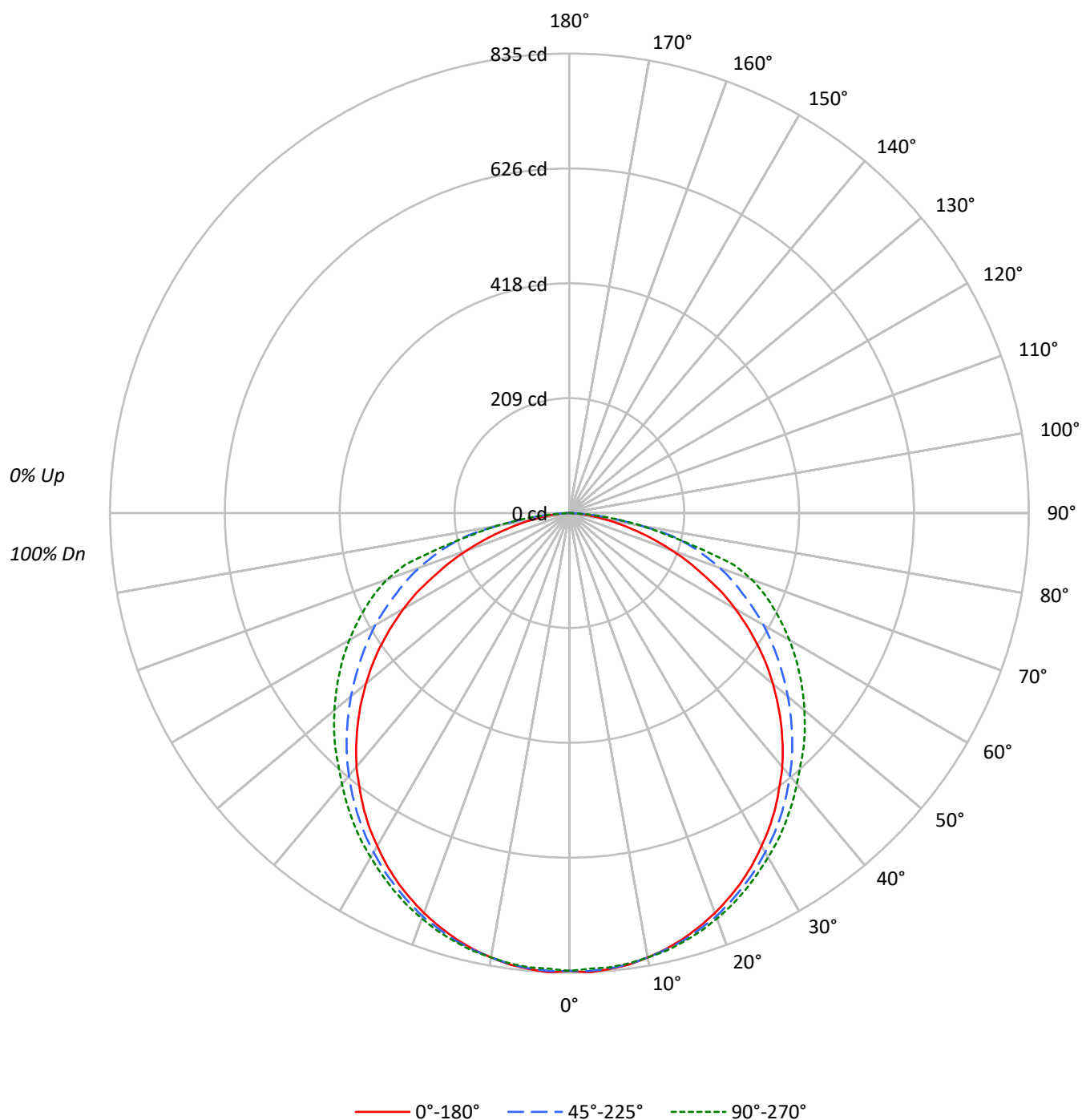
Input Watts (W): 21.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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		0
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		100
1	108	103	99	95	105	101	97	93	97	93	90		93	90	87		83
2	98	89	82	76	95	87	81	75	84	78	74		81	76	72		68
3	89	78	70	63	86	76	69	62	73	67	61		71	65	60		57
4	81	69	60	53	79	68	59	52	65	58	52		63	56	51		48
5	75	61	52	45	72	60	52	45	58	50	44		56	49	44		41
6	69	55	46	39	67	54	45	39	52	45	39		51	44	38		36
7	64	50	41	35	62	49	41	34	48	40	34		46	39	34		32
8	59	45	37	31	58	45	36	31	43	36	31		42	35	30		28
9	55	42	33	28	54	41	33	28	40	33	27		39	32	27		25
10	52	38	30	25	51	38	30	25	37	30	25		36	29	25		23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1119	1119	1119
5°	1124	1122	1119
10°	1120	1120	1120
15°	1115	1120	1123
20°	1107	1117	1123
25°	1098	1111	1122
30°	1085	1105	1122
35°	1073	1101	1126
40°	1057	1095	1130
45°	1036	1090	1145
50°	1010	1085	1167
55°	980	1086	1198
60°	937	1097	1244
65°	867	1109	1305
70°	781	1144	1387
75°	660	1179	1240
80°	513	1009	1042
85°	369	687	602



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.9	3.1
10°-20°	226.4	8.9
20°-30°	344.3	13.6
30°-40°	418.4	16.5
40°-50°	441.6	17.4
50°-60°	414.9	16.4
60°-70°	341.6	13.5
70°-80°	215.2	8.5
80°-90°	50.8	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°	649.6	25.7
0°-40°	1068.0	42.2
0°-60°	1924.5	76.0
0°-90°	2532.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2532.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	832	832	832	832	832	
5°	832	828	831	830	829	79
15°	800	797	804	806	806	226
25°	740	739	748	753	756	341
35°	653	656	670	679	686	408
45°	544	553	573	589	602	420
55°	418	433	463	496	511	373
65°	272	298	348	393	410	270
75°	127	166	227	247	239	135
85°	24	40	44	41	39	30
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	831.9	831.9	831.9	831.9	831.9
2.5°	835.2	829.8	833.0	831.9	828.7
5°	831.9	827.6	830.8	829.8	828.7
7.5°	827.6	823.3	826.5	825.4	825.4
10°	820.0	816.7	820.0	820.0	820.0
12.5°	811.3	808.1	812.4	813.5	814.6
15°	800.5	797.2	803.7	805.9	805.9
17.5°	787.5	785.3	791.8	794.0	796.1
20°	773.4	772.3	779.9	782.0	784.2
22.5°	757.1	757.1	764.7	766.8	771.2
25°	739.7	738.6	748.4	752.7	756.0
27.5°	720.2	720.2	731.1	736.5	739.7
30°	698.5	700.7	711.5	718.0	722.4
32.5°	676.8	679.0	692.0	699.6	705.0
35°	653.0	656.2	670.3	679.0	685.5
37.5°	626.9	632.4	647.5	657.3	664.9
40°	602.0	606.3	623.7	634.5	643.2
42.5°	573.8	581.4	598.7	611.7	621.5
45°	544.5	553.2	572.7	589.0	602.0
47.5°	514.1	525.0	545.6	567.3	580.3
50°	482.7	494.6	518.5	544.5	557.5
52.5°	451.2	464.2	490.3	520.6	534.7
55°	417.6	432.8	463.1	495.7	510.9
57.5°	382.9	400.2	434.9	471.8	487.0
60°	348.2	366.6	407.8	444.7	462.1
62.5°	312.4	333.0	377.5	419.8	436.0
65°	272.2	298.3	348.2	392.6	410.0
67.5°	235.4	262.5	320.0	364.4	382.9
70°	198.5	229.9	290.7	335.2	352.5
72.5°	161.6	198.5	258.1	303.7	313.5
75°	126.9	166.0	226.7	247.3	238.6
77.5°	93.3	136.7	190.9	180.1	177.9
80°	66.2	108.5	130.2	131.2	134.5
82.5°	42.3	80.3	84.6	85.7	86.8
85°	23.9	40.1	44.5	41.2	39.0
87.5°	10.8	13.0	10.8	7.6	6.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)