

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: P345040

Luminaire Tested: **24CZ-30-L840-HRP-UNV-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P345040
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-L840-HRP-UNV-CD1-U
Description: CRUZE 2X4 WITH HRP LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2605.9 lumens
Efficiency: N/A
Efficacy: 120.6 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

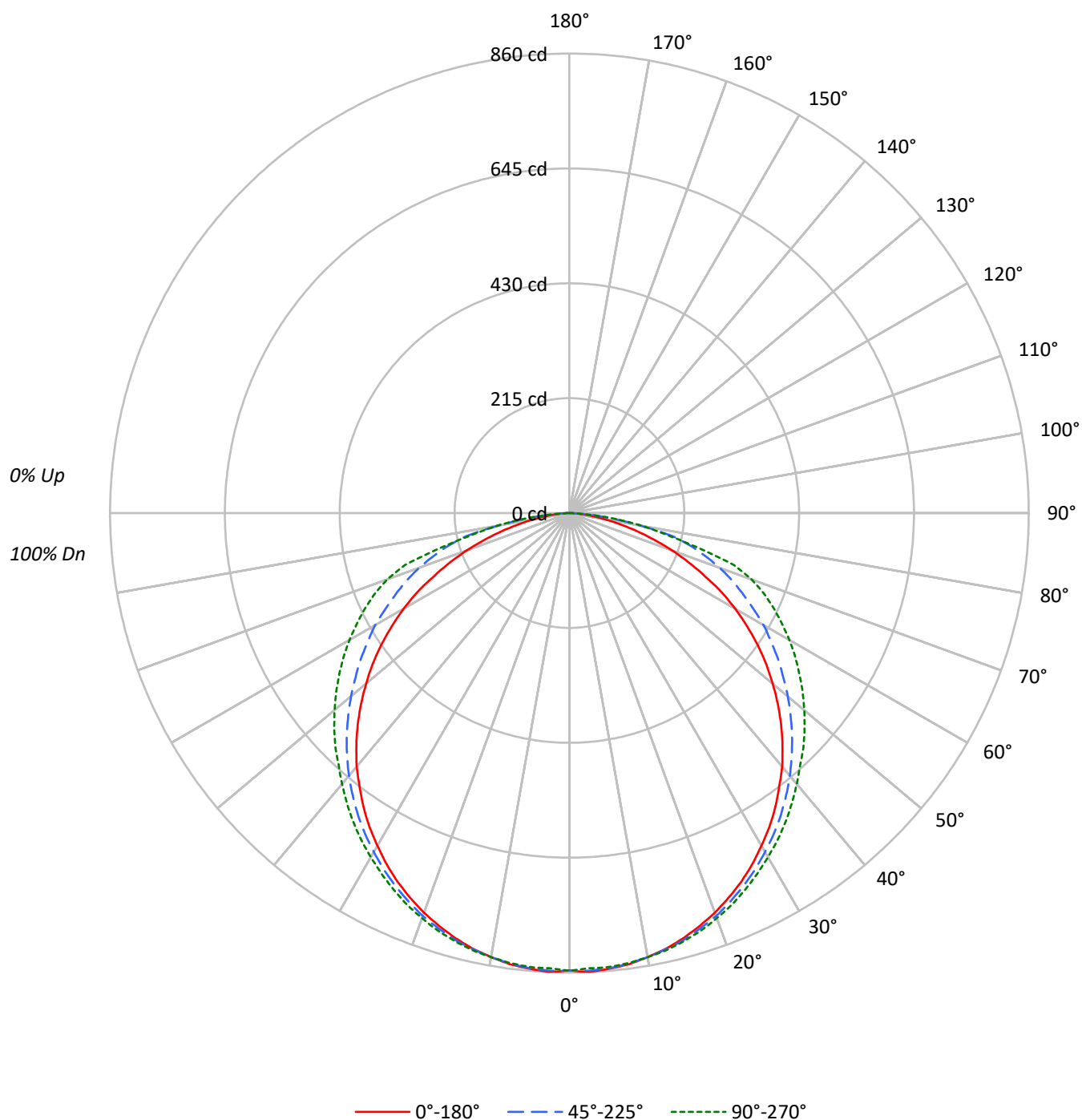
Input Watts (W): 21.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	1152	1152	1152
5°	1156	1155	1152
10°	1153	1153	1153
15°	1148	1152	1155
20°	1140	1149	1156
25°	1130	1143	1155
30°	1117	1138	1155
35°	1104	1133	1159
40°	1088	1127	1163
45°	1066	1122	1179
50°	1040	1117	1201
55°	1008	1118	1233
60°	964	1129	1280
65°	892	1141	1344
70°	804	1177	1427
75°	679	1213	1277
80°	528	1038	1072
85°	380	707	621



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.2	3.1
10°-20°	233.0	8.9
20°-30°	354.4	13.6
30°-40°	430.6	16.5
40°-50°	454.4	17.4
50°-60°	427.0	16.4
60°-70°	351.5	13.5
70°-80°	221.5	8.5
80°-90°	52.3	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°	668.6	25.7
0°-40°	1099.2	42.2
0°-60°	1980.6	76.0
0°-90°	2605.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2605.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	856	856	856	856	856	
5°	856	852	855	854	853	81
15°	824	820	827	829	829	232
25°	761	760	770	775	778	351
35°	672	675	690	699	706	420
45°	560	569	589	606	620	432
55°	430	445	477	510	526	384
65°	280	307	358	404	422	278
75°	131	171	233	254	246	139
85°	25	41	46	42	40	31
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	856.2	856.2	856.2	856.2	856.2
2.5°	859.5	854.0	857.3	856.2	852.8
5°	856.2	851.7	855.1	854.0	852.8
7.5°	851.7	847.3	850.6	849.5	849.5
10°	843.9	840.6	843.9	843.9	843.9
12.5°	835.0	831.6	836.1	837.2	838.3
15°	823.8	820.5	827.2	829.4	829.4
17.5°	810.4	808.2	814.9	817.1	819.4
20°	795.9	794.8	802.6	804.8	807.1
22.5°	779.2	779.2	787.0	789.2	793.7
25°	761.3	760.2	770.2	774.7	778.1
27.5°	741.2	741.2	752.4	758.0	761.3
30°	718.9	721.1	732.3	739.0	743.4
32.5°	696.6	698.8	712.2	720.0	725.6
35°	672.0	675.4	689.9	698.8	705.5
37.5°	645.2	650.8	666.4	676.5	684.3
40°	619.5	624.0	641.9	653.0	662.0
42.5°	590.5	598.3	616.2	629.6	639.6
45°	560.4	569.3	589.4	606.1	619.5
47.5°	529.1	540.3	561.5	583.8	597.2
50°	496.7	509.0	533.6	560.4	573.8
52.5°	464.4	477.8	504.6	535.8	550.3
55°	429.8	445.4	476.7	510.1	525.8
57.5°	394.0	411.9	447.6	485.6	501.2
60°	358.3	377.3	419.7	457.7	475.5
62.5°	321.5	342.7	388.5	432.0	448.7
65°	280.2	307.0	358.3	404.1	422.0
67.5°	242.2	270.1	329.3	375.1	394.0
70°	204.3	236.7	299.2	344.9	362.8
72.5°	166.3	204.3	265.7	312.6	322.6
75°	130.6	170.8	233.3	254.5	245.6
77.5°	96.0	140.7	196.5	185.3	183.1
80°	68.1	111.6	134.0	135.1	138.4
82.5°	43.5	82.6	87.1	88.2	89.3
85°	24.6	41.3	45.8	42.4	40.2
87.5°	11.2	13.4	11.2	7.8	6.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)