

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: L081705501

Luminaire Tested: **RHB-24-UNV-L840-CD-U WITH RHB-CLR**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: L081705501
Test Lab: LIGHT LABORATORY, INC. (www.lightlaboratory.com)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: RHB-24-UNV-L840-CD-U WITH RHB-CLR
Description: LED High-Bay
Light Source: -
Ballast/Driver: -
MEAN WELL HLG-185H-36B

Summary

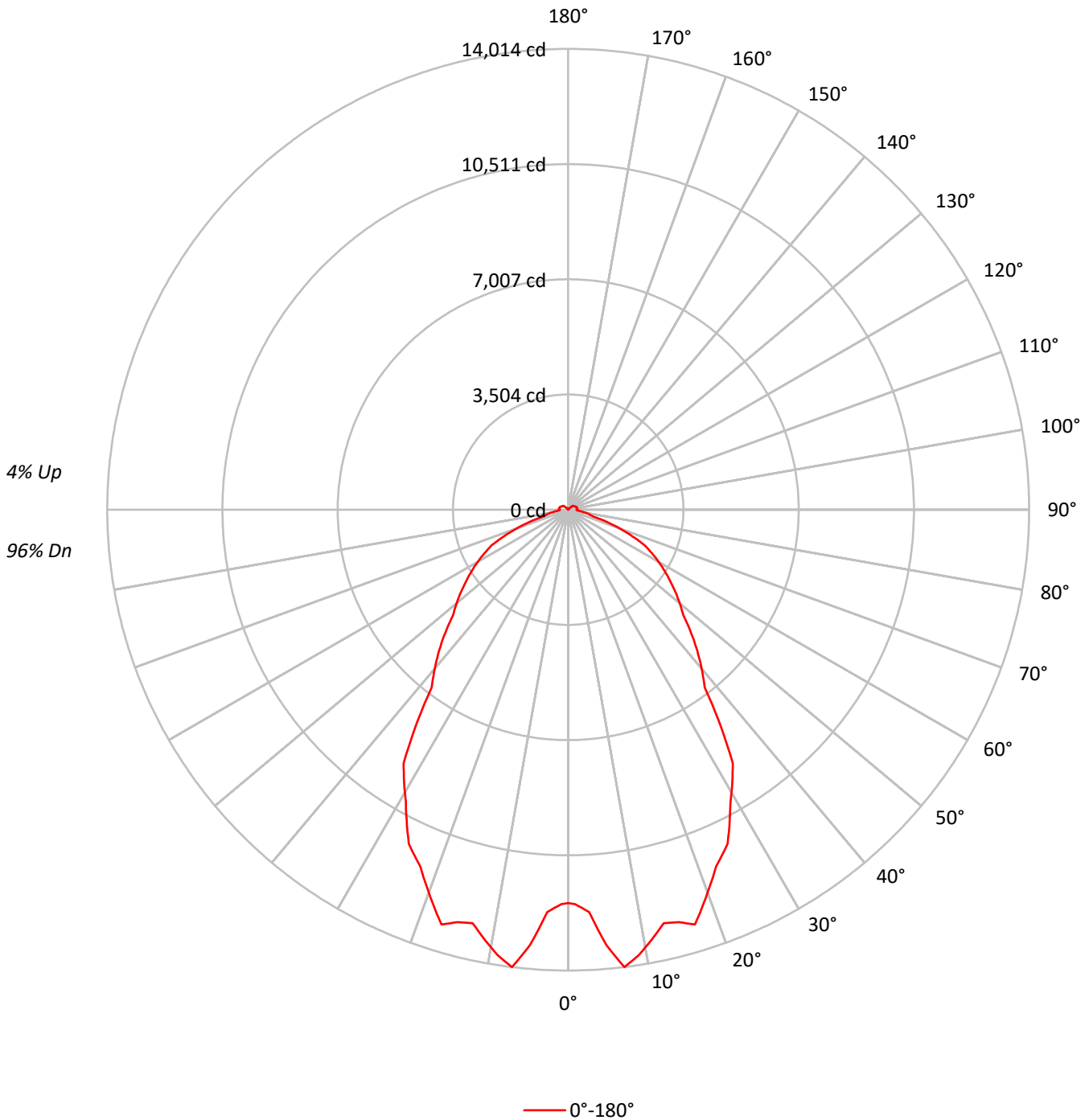
Lumens per Lamp: N/A
Luminaire Lumens: 27599.3 lumens
Efficiency: N/A
Efficacy: 141.4 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.22 / 1.16
Luminous Opening: Circular (Dia: 0.79' x H: 0')
CIE Type: Direct

Input Watts (W): 195.13
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	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	99	99	96
1	109	105	101	98	106	102	99	96	98	95	92	93	91	89	89	87	85	83
2	101	93	87	82	98	91	85	81	87	82	78	83	79	76	80	77	74	71
3	93	83	76	70	90	81	75	69	78	72	67	75	70	66	72	68	64	62
4	86	75	67	61	83	73	66	60	70	64	59	68	62	58	65	60	57	54
5	79	68	59	53	77	66	59	53	64	57	52	62	56	51	59	54	50	48
6	74	62	53	47	72	60	53	47	58	52	46	56	50	46	54	49	45	43
7	69	56	48	43	67	55	48	42	54	47	42	52	46	41	50	45	41	39
8	64	52	44	39	63	51	44	38	49	43	38	48	42	37	47	41	37	35
9	61	48	40	35	59	47	40	35	46	39	35	45	39	34	43	38	34	32
10	57	45	37	32	56	44	37	32	43	36	32	42	36	32	41	35	31	30

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	262792
5°	293025
10°	301352
15°	295160
20°	289647
25°	274613
30°	251781
35°	218058
40°	180913
45°	163803
50°	151218
55°	145064
60°	139510
65°	133228
70°	107256
75°	65925
80°	67909
85°	74832



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1282.2	4.6
10°-20°	3678.8	13.3
20°-30°	5182.0	18.8
30°-40°	4949.9	17.9
40°-50°	4086.9	14.8
50°-60°	3410.5	12.4
60°-70°	2405.6	8.7
70°-80°	1167.7	4.2
80°-90°	432.6	1.6
90°-100°	299.2	1.1
100°-110°	282.5	1.0
110°-120°	231.0	0.8
120°-130°	176.8	0.6
130°-140°	80.8	0.3
140°-150°	15.1	0.1
150°-160°	1.1	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	10143.0	36.8
0°-40°	15092.9	54.7
0°-60°	22590.3	81.9
0°-90°	26596.2	96.4
90°-120°	812.7	2.9
90°-150°	1085.3	3.9
90°-180°	1086.0	3.9
0°-180°	27599.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	11967	
5°	13293	###
15°	12983	3679
25°	11334	5182
35°	8134	4950
45°	5274	4087
55°	3789	3410
65°	2564	2406
75°	777	1168
85°	297	332
90°	256	150
95°	288	219
105°	273	282
115°	227	231
125°	192	177
135°	92	81
145°	21	15
155°	0	1
165°	0	0
175°	0	0
180°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	11967
1°	11994
3°	12252
5°	13293
7°	14014
9°	13713
11°	13316
13°	12907
15°	12983
17°	13189
19.5°	12524
22.5°	11747
25.5°	11251
29°	10177
33°	9187
37.5°	6818
42.5°	5804
47.5°	4745
55°	3789
65°	2564
75°	777
85°	297
90°	256
95°	288
100°	265
105°	273
110°	257
115°	227
120°	219
125°	192
130°	184
135°	92
140°	43
145°	21
150°	9
155°	0
160°	0
165°	0
170°	0
175°	0
180°	0

(END OF REPORT)