

Classified
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: HALO COMMERCIAL

Report Number: P580401

Luminaire Tested: **HCC4S35D010BZ-HM43040827-41MDH**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580401
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-5)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC4S35D010BZ-HM43040827-41MDH
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" MEDIUM DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

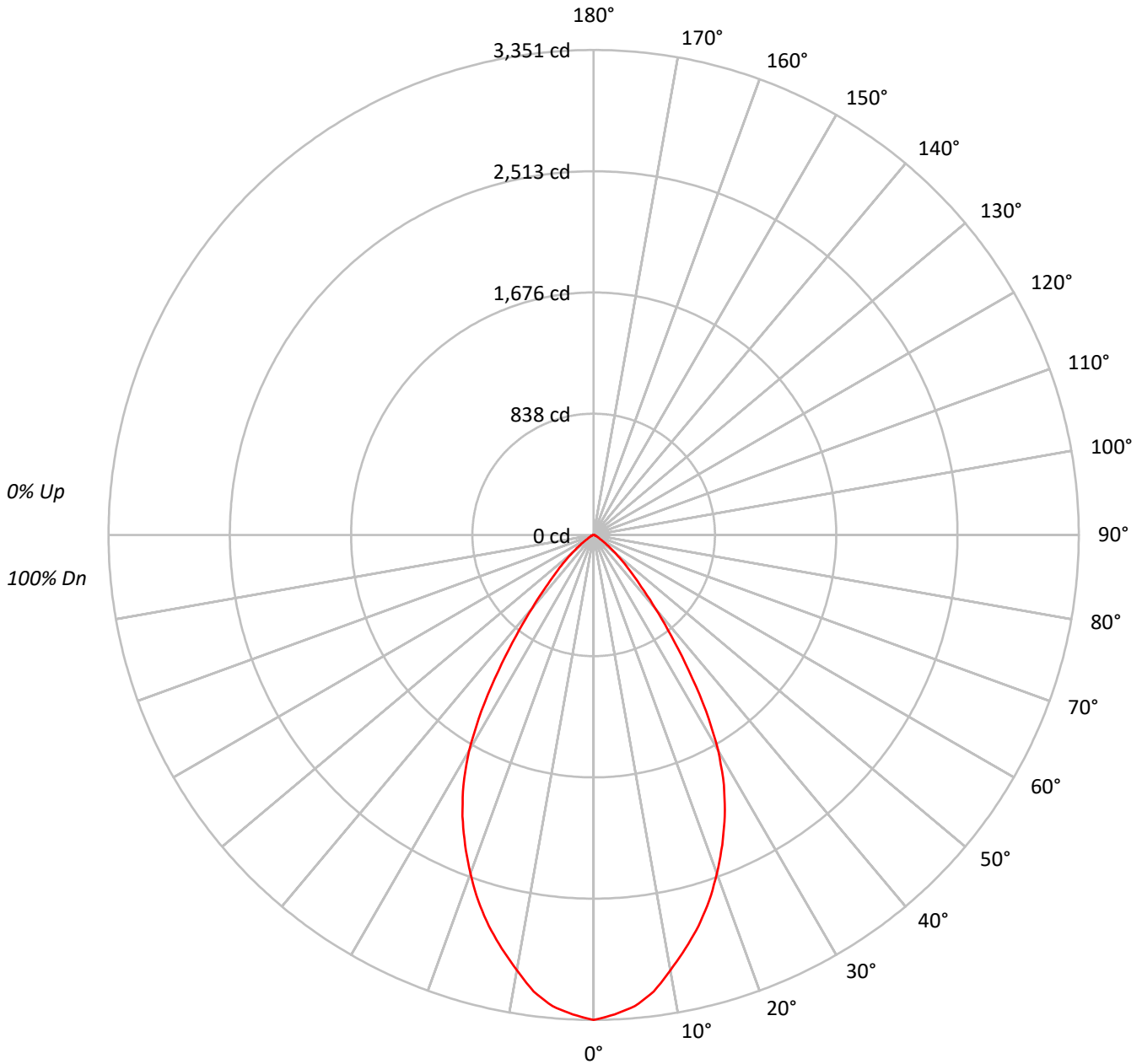
Lumens per Lamp: N/A
Luminaire Lumens: 3193.2 lumens
Efficiency: N/A
Efficacy: 94.8 lumens/watt
Spacing Criteria (0/90/45): 0.9 / 0.9 / 0.91
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 33.7
Input Voltage (V): NR
Input Current (A_{in}): 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	50	30	10	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100
1	113	110	108	105	111	108	106	104	104	102	100	100	99	97	97	96	95	93	93	93	93
2	107	102	98	94	105	100	96	93	97	94	91	94	91	89	91	89	87	86	86	86	86
3	101	95	89	85	99	93	88	84	91	86	83	88	85	82	86	83	81	79	79	79	79
4	96	88	82	78	94	87	81	77	85	80	76	82	79	75	81	77	74	73	73	73	73
5	91	82	76	71	89	81	75	71	79	74	70	77	73	70	76	72	69	67	67	67	67
6	86	76	70	66	84	76	70	65	74	69	65	73	68	64	71	67	64	62	62	62	62
7	81	71	65	61	80	71	65	61	69	64	60	68	63	60	67	63	60	58	58	58	58
8	77	67	61	56	76	66	60	56	65	60	56	64	59	56	63	59	56	54	54	54	54
9	73	63	57	53	72	63	57	53	62	56	52	61	56	52	60	55	52	51	51	51	51
10	70	59	53	49	69	59	53	49	58	53	49	57	52	49	57	52	49	47	47	47	47

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	413381
5°	404745
10°	382496
15°	357245
20°	326737
25°	291764
30°	245018
35°	172366
40°	106335
45°	63652
50°	37515
55°	18688
60°	9646
65°	6333
70°	3931
75°	3098
80°	1492
85°	2972



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	305.3	9.6
10°-20°	782.0	24.5
20°-30°	975.2	30.5
30°-40°	718.4	22.5
40°-50°	295.4	9.3
50°-60°	86.3	2.7
60°-70°	22.2	0.7
70°-80°	6.9	0.2
80°-90°	1.4	0.0
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°	2062.5	64.6
0°-40°	2780.9	87.1
0°-60°	3162.7	99.0
0°-90°	3193.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3193.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3351	
5°	3269	305
15°	2798	782
25°	2144	975
35°	1145	718
45°	365	295
55°	87	86
65°	22	22
75°	6	7
85°	2	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3351.4
2.5°	3316.7
5°	3268.9
7.5°	3182.0
10°	3053.9
12.5°	2927.9
15°	2797.6
17.5°	2652.1
20°	2489.2
22.5°	2319.7
25°	2143.8
27.5°	1948.3
30°	1720.3
32.5°	1444.5
35°	1144.7
37.5°	879.6
40°	660.4
42.5°	488.7
45°	364.9
47.5°	269.3
50°	195.5
52.5°	134.7
55°	86.9
57.5°	52.2
60°	39.1
62.5°	28.2
65°	21.7
67.5°	15.2
70°	10.9
72.5°	8.7
75°	6.5
77.5°	4.4
80°	2.1
82.5°	2.1
85°	2.1
87.5°	0.0
90°	0.0

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Scaled Data Report



Report Generated By 670245859 / DESKTOP-T8S5UU9

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— 0°-180°

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(END OF REPORT)