

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: P583714

Luminaire Tested: **HCC8W10D010BZ-HM80520830-81MDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P583714
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-6)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC8W10D010BZ-HM80520830-81MDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" MEDIUM DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

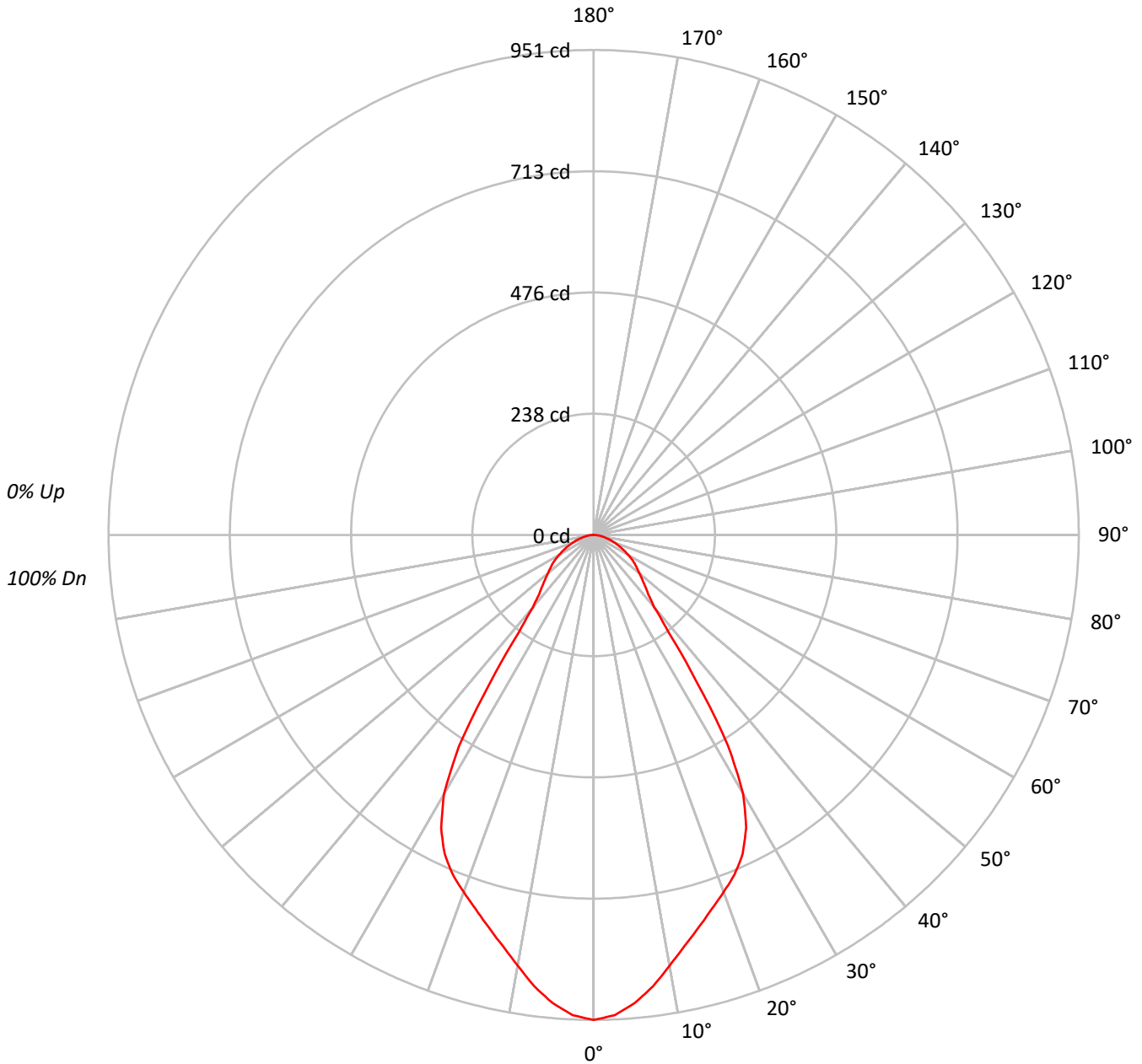
Lumens per Lamp: N/A
Luminaire Lumens: 1147.1 lumens
Efficiency: N/A
Efficacy: 115.9 lumens/watt
Spacing Criteria (0/90/45): 1 / 1 / 0.95
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

Input Watts (W): 9.9
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
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	92	90		
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	80		
3	98	89	83	78	95	88	82	78	85	80	76	83	78	75	80	77	74	72		
4	91	82	75	70	89	81	74	69	78	73	69	76	72	68	74	70	67	65		
5	86	76	68	63	84	75	68	63	73	67	62	71	66	62	69	65	61	59		
6	81	70	63	58	79	69	62	57	67	61	57	66	61	56	64	60	56	54		
7	76	65	58	53	74	64	57	53	63	57	52	62	56	52	60	55	52	50		
8	72	61	54	49	70	60	53	49	59	53	48	58	52	48	57	52	48	46		
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43		
10	64	53	46	42	63	53	46	42	52	46	42	51	46	42	50	45	42	40		

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	29328
5°	28533
10°	26850
15°	25421
20°	24451
25°	23507
30°	20876
35°	13300
40°	7423
45°	6219
50°	5613
55°	5285
60°	4829
65°	4349
70°	3841
75°	3407
80°	3037
85°	2724



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.9	7.5
10°-20°	224.6	19.6
20°-30°	313.3	27.3
30°-40°	225.4	19.7
40°-50°	111.7	9.7
50°-60°	87.4	7.6
60°-70°	59.2	5.2
70°-80°	30.7	2.7
80°-90°	8.8	0.8
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°	623.8	54.4
0°-40°	849.2	74.0
0°-60°	1048.4	91.4
0°-90°	1147.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1147.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	951	
5°	922	86
15°	796	225
25°	691	313
35°	353	225
45°	143	112
55°	98	87
65°	60	59
75°	29	31
85°	8	9
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	951.1
2.5°	942.6
5°	921.8
7.5°	892.4
10°	857.5
12.5°	824.9
15°	796.3
17.5°	769.2
20°	745.1
22.5°	721.1
25°	690.9
27.5°	647.5
30°	586.3
32.5°	490.3
35°	353.3
37.5°	240.9
40°	184.4
42.5°	158.8
45°	142.6
47.5°	128.6
50°	117.0
52.5°	106.9
55°	98.3
57.5°	88.3
60°	78.3
62.5°	68.2
65°	59.6
67.5°	51.1
70°	42.6
72.5°	35.6
75°	28.6
77.5°	22.5
80°	17.1
82.5°	12.4
85°	7.7
87.5°	3.8
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)