

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: P584919

Luminaire Tested: **HCC8S55D010MW-HM82555827-81NDH**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584919
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-2)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC8S55D010MW-HM82555827-81NDH
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" NARROW DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

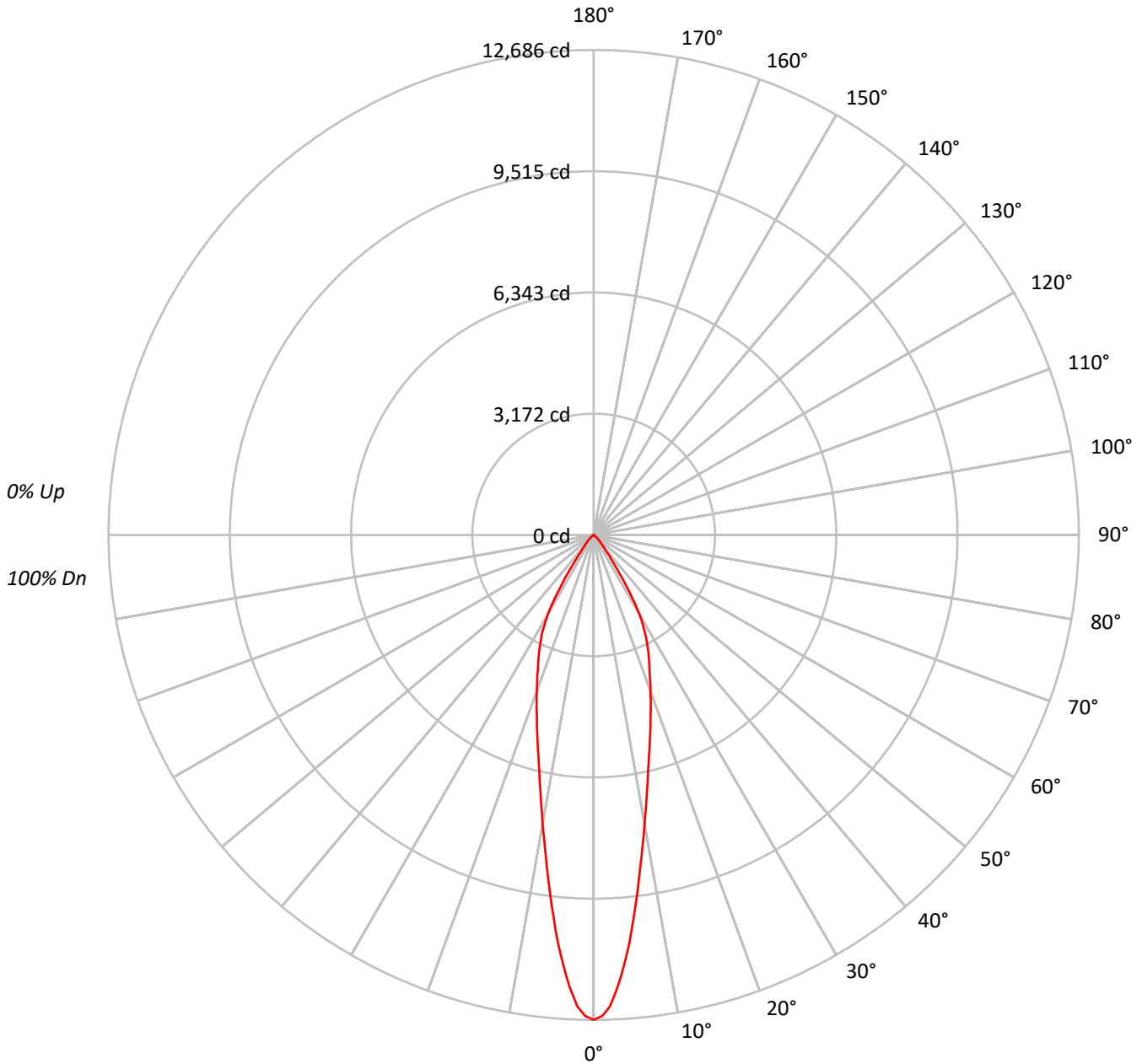
Lumens per Lamp: N/A
Luminaire Lumens: 4916.2 lumens
Efficiency: N/A
Efficacy: 94.5 lumens/watt
Spacing Criteria (0/90/45): 0.42 / 0.42 / 0.57
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

Input Watts (W): 52
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	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	99	98	97	96	95	95	95	93	94	92	91	89																					
	1	114	112	109	107	112	109	107	106	105	104	102	102	100	99	98	97	96	95	95	95	93	94	92	91	89	89	89	87	90	88	86	84																					
	2	109	105	101	98	107	103	100	97	100	97	95	97	95	93	94	92	91	89	89	89	87	90	88	86	84	84	84	82	85	82	86	83	81	80																			
	3	104	99	94	91	102	97	93	90	95	91	88	92	90	87	90	88	86	84	84	84	82	84	82	81	79	75	75	77	79	77	75	75																					
	4	100	93	88	84	98	92	87	84	90	86	83	88	85	82	86	83	81	80	80	80	77	82	79	77	75	75	75	73	76	73	72	72																					
	5	96	88	83	79	94	87	82	79	86	81	78	84	80	77	82	79	77	75	75	75	73	79	76	73	72	72	72	73	73	73	72	72																					
	6	92	84	78	75	90	83	78	74	81	77	74	80	76	73	79	76	73	72	72	72	73	76	73	69	68	68	68	70	70	69	68	68																					
	7	88	80	74	70	87	79	74	70	78	73	70	77	73	70	76	72	69	68	68	68	70	72	69	66	65	65	65	66	66	66	65	65																					
	8	84	76	71	67	83	75	70	67	74	70	66	73	69	66	72	69	66	65	65	65	66	69	66	63	62	62	62	63	63	63	62	62																					
	9	81	72	67	64	80	72	67	63	71	66	63	70	66	63	69	66	63	62	62	62	63	66	63	60	59	59	59	60	60	60	59	59																					
	10	78	69	64	61	77	69	64	61	68	63	60	67	63	60	67	63	60	59	59	59	60	63	60	57	56	56	56	57	57	57	56	56																					

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	391196
5°	331422
10°	240464
15°	180579
20°	142481
25°	114930
30°	85168
35°	34505
40°	14556
45°	7806
50°	3502
55°	1763
60°	1129
65°	795
70°	658
75°	429
80°	639
85°	1274



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	919.3	18.7
10°-20°	1588.7	32.3
20°-30°	1536.0	31.2
30°-40°	674.6	13.7
40°-50°	145.8	3.0
50°-60°	32.7	0.7
60°-70°	11.2	0.2
70°-80°	4.3	0.1
80°-90°	3.4	0.1
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°	4044.1	82.3
0°-40°	4718.7	96.0
0°-60°	4897.3	99.6
0°-90°	4916.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4916.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	12686	
5°	10707	919
15°	5656	1589
25°	3378	1536
35°	917	675
45°	179	146
55°	33	33
65°	11	11
75°	4	4
85°	4	3
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	12686.2
1°	12591.3
2°	12332.0
3°	11864.6
4°	11305.8
5°	10706.9
6°	10053.3
7°	9396.0
8°	8778.9
9°	8205.5
10°	7679.6
11°	7183.1
12°	6737.5
13°	6332.2
14°	5974.3
15°	5656.5
17.5°	4944.4
20°	4341.9
22.5°	3812.4
25°	3377.9
27.5°	2936.0
30°	2391.9
32.5°	1625.0
35°	916.6
37.5°	540.4
40°	361.6
42.5°	255.6
45°	179.0
47.5°	116.8
50°	73.0
52.5°	43.8
55°	32.8
57.5°	25.5
60°	18.3
62.5°	14.6
65°	10.9
67.5°	7.3
70°	7.3
72.5°	3.6
75°	3.6
77.5°	3.6
80°	3.6
82.5°	3.6

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CANDELA DISTRIBUTION (continued):

0°
90° | 0.0

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Report Generated By 670245859 / DESKTOP-T8S5UU9

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Scaled Data Report



— 0°-180°

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Scaled Data Report



85°	3.6
87.5°	3.6

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(END OF REPORT)