

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: P584987

Luminaire Tested: **HCC8W55D010BZ-HM82555927-81NDH**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584987
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: HCC8W55D010BZ-HM82555927-81NDH
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" NARROW DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

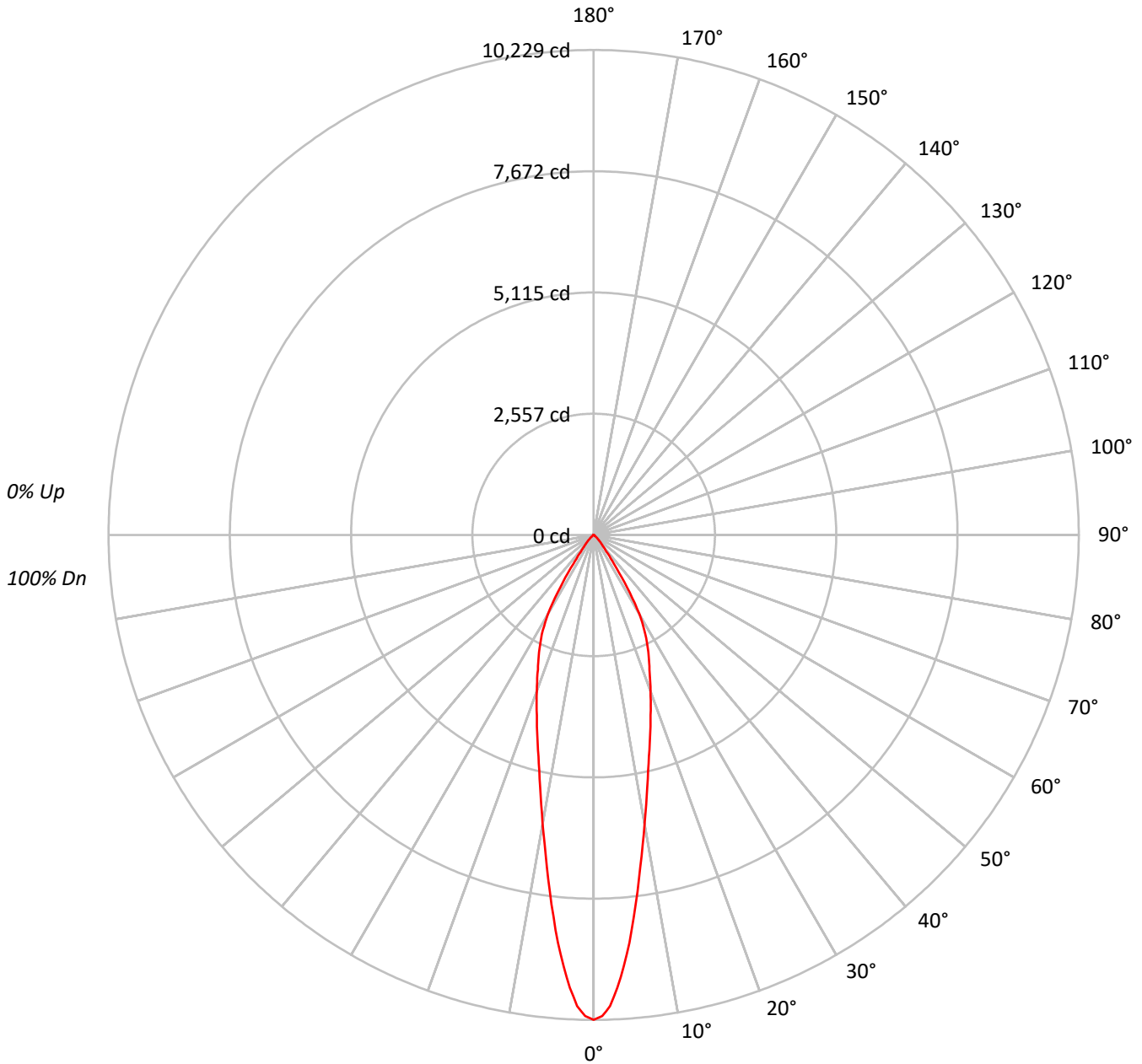
Lumens per Lamp: N/A
Luminaire Lumens: 3963.9 lumens
Efficiency: N/A
Efficacy: 76.2 lumens/watt
Spacing Criteria (0/90/45): 0.42 / 0.42 / 0.57
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

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	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	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	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	72	72	72	73	73	73	72	72	72	72	72																			
	7	88	80	74	70	87	79	74	70	78	73	70	77	73	70	76	72	69	68	68	68	70	72	69	68	68	68	68	69	69	69	68	68	68	68	68																		
	8	84	76	71	67	83	75	70	67	74	70	66	73	69	66	72	69	66	65	65	65	66	69	66	65	65	65	66	66	66	65	65	65	65	65	65																		
	9	81	72	67	64	80	72	67	63	71	66	63	70	66	63	69	66	63	62	62	62	63	66	63	62	62	62	63	63	63	62	62	62	62	62	62																		
	10	78	69	64	61	77	69	64	61	68	63	60	67	63	60	67	63	60	59	59	59	60	63	60	59	59	59	60	60	60	59	59	59	59	59	59																		

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	315415
5°	267227
10°	193884
15°	145599
20°	114883
25°	92668
30°	68668
35°	27823
40°	11734
45°	6293
50°	2821
55°	1425
60°	913
65°	642
70°	532
75°	346
80°	515
85°	1026



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	741.2	18.7
10°-20°	1281.0	32.3
20°-30°	1238.5	31.2
30°-40°	544.0	13.7
40°-50°	117.6	3.0
50°-60°	26.4	0.7
60°-70°	9.1	0.2
70°-80°	3.5	0.1
80°-90°	2.8	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°	3260.7	82.3
0°-40°	3804.7	96.0
0°-60°	3948.7	99.6
0°-90°	3963.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3963.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	10229	
5°	8633	741
15°	4561	1281
25°	2724	1239
35°	739	544
45°	144	118
55°	26	26
65°	9	9
75°	3	3
85°	3	3
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	10228.7
1°	10152.2
2°	9943.2
3°	9566.3
4°	9115.8
5°	8633.0
6°	8105.9
7°	7575.9
8°	7078.3
9°	6616.1
10°	6192.0
11°	5791.6
12°	5432.3
13°	5105.6
14°	4817.0
15°	4560.8
17.5°	3986.7
20°	3500.9
22.5°	3073.9
25°	2723.6
27.5°	2367.3
30°	1928.5
32.5°	1310.3
35°	739.1
37.5°	435.7
40°	291.5
42.5°	206.2
45°	144.3
47.5°	94.2
50°	58.8
52.5°	35.3
55°	26.5
57.5°	20.6
60°	14.8
62.5°	11.7
65°	8.8
67.5°	5.9
70°	5.9
72.5°	2.9
75°	2.9
77.5°	2.9
80°	2.9
82.5°	2.9

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Scaled Data Report



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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°	2.9
87.5°	2.9

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(END OF REPORT)