

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: P582748

Luminaire Tested: **HCC6W50D010BZ-HM64560835-61WDBB**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P582748  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-11)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/16/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC6W50D010BZ-HM64560835-61WDBB  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, BLACK BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

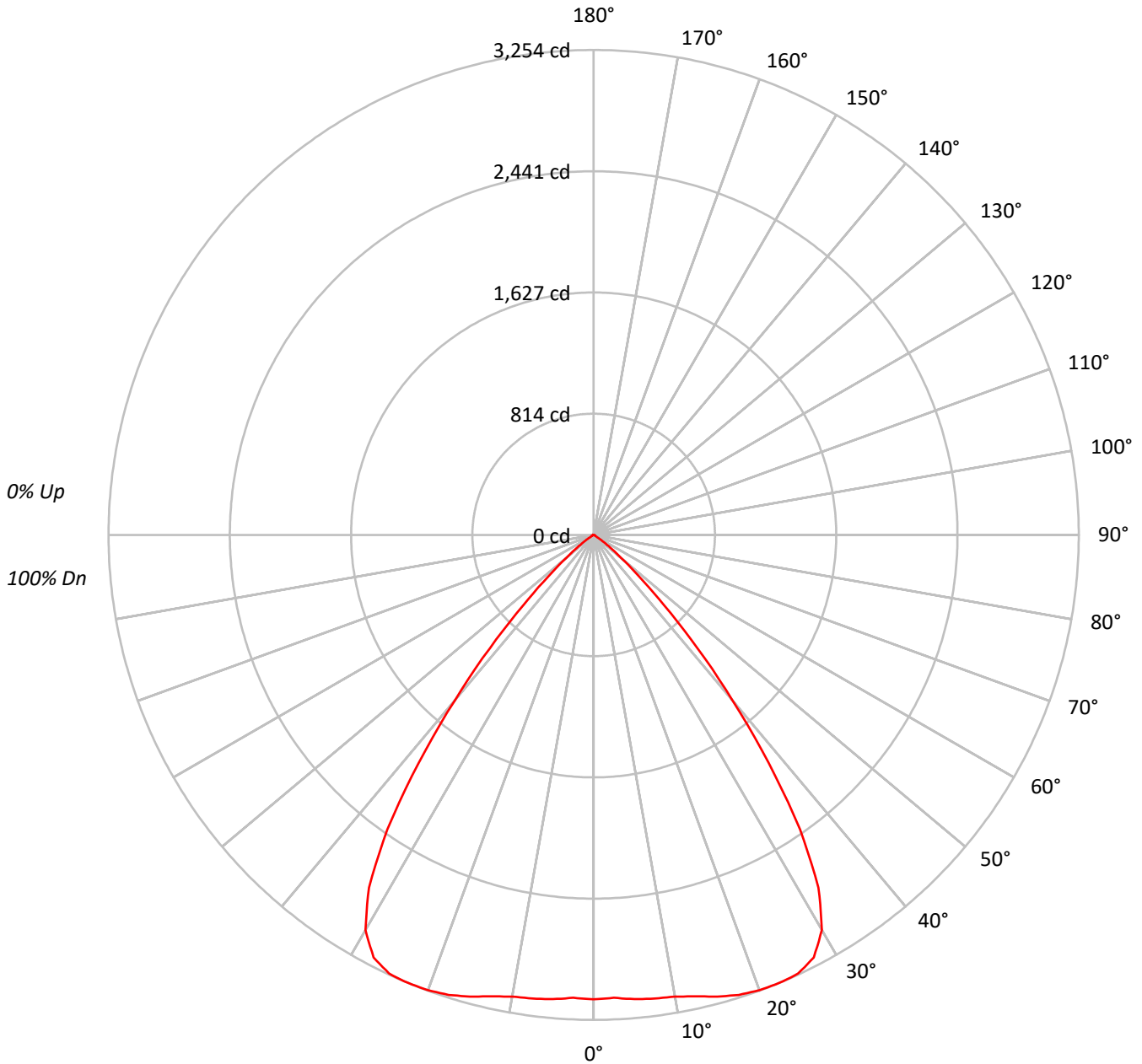
Lumens per Lamp: N/A  
Luminaire Lumens: 4809.7 lumens  
Efficiency: N/A  
Efficacy: 100.2 lumens/watt  
Spacing Criteria (0/90/45): 1.32 / 1.32 / 1.14  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 48  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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
1	113	110	107	105	110	108	105	103	104	102	100	100	98	97	97	95	94	92			92
2	107	101	97	93	104	100	95	92	96	93	90	93	91	88	90	88	86	85			85
3	100	93	88	83	98	92	87	83	89	85	81	87	83	80	84	81	79	77			77
4	95	86	80	75	93	85	79	75	83	78	74	81	77	73	79	75	72	71			71
5	89	80	73	68	87	79	73	68	77	72	67	75	70	67	73	69	66	65			65
6	84	74	67	62	82	73	67	62	71	66	62	70	65	61	69	64	61	59			59
7	79	68	62	57	77	68	61	57	66	61	57	65	60	56	64	59	56	54			54
8	74	64	57	52	73	63	57	52	62	56	52	61	56	52	60	55	52	50			50
9	70	59	53	48	69	59	53	48	58	52	48	57	52	48	56	51	48	46			46
10	66	56	49	45	65	55	49	45	54	48	45	53	48	44	53	48	44	43			43

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	170809
5°	172061
10°	175069
15°	182004
20°	189641
25°	196402
30°	193777
35°	161445
40°	103530
45°	51703
50°	20520
55°	6967
60°	1995
65°	1427
70°	1170
75°	1546
80°	1168
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	299.0	6.2
10°-20°	909.6	18.9
20°-30°	1485.2	30.9
30°-40°	1455.9	30.3
40°-50°	558.2	11.6
50°-60°	81.9	1.7
60°-70°	12.2	0.3
70°-80°	6.3	0.1
80°-90°	1.5	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°	2693.7	56.0
0°-40°	4149.6	86.3
0°-60°	4789.7	99.6
0°-90°	4809.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4809.7	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3116	
5°	3127	299
15°	3207	910
25°	3247	1485
35°	2412	1456
45°	667	558
55°	73	82
65°	11	12
75°	7	6
85°	0	2
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	3115.8
2.5°	3108.5
5°	3126.7
7.5°	3137.7
10°	3145.0
12.5°	3170.5
15°	3206.9
17.5°	3236.1
20°	3250.7
22.5°	3254.2
25°	3247.0
27.5°	3196.0
30°	3061.2
32.5°	2806.1
35°	2412.4
37.5°	1927.7
40°	1446.7
42.5°	1031.4
45°	666.9
47.5°	408.2
50°	240.6
52.5°	138.5
55°	72.9
57.5°	32.8
60°	18.2
62.5°	14.5
65°	11.0
67.5°	11.0
70°	7.3
72.5°	7.3
75°	7.3
77.5°	3.7
80°	3.7
82.5°	3.7
85°	0.0
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)