

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: P582821

Luminaire Tested: **HCC6W50D010BZ-HM64560935-61WDC**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582821
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-7)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC6W50D010BZ-HM64560935-61WDC
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

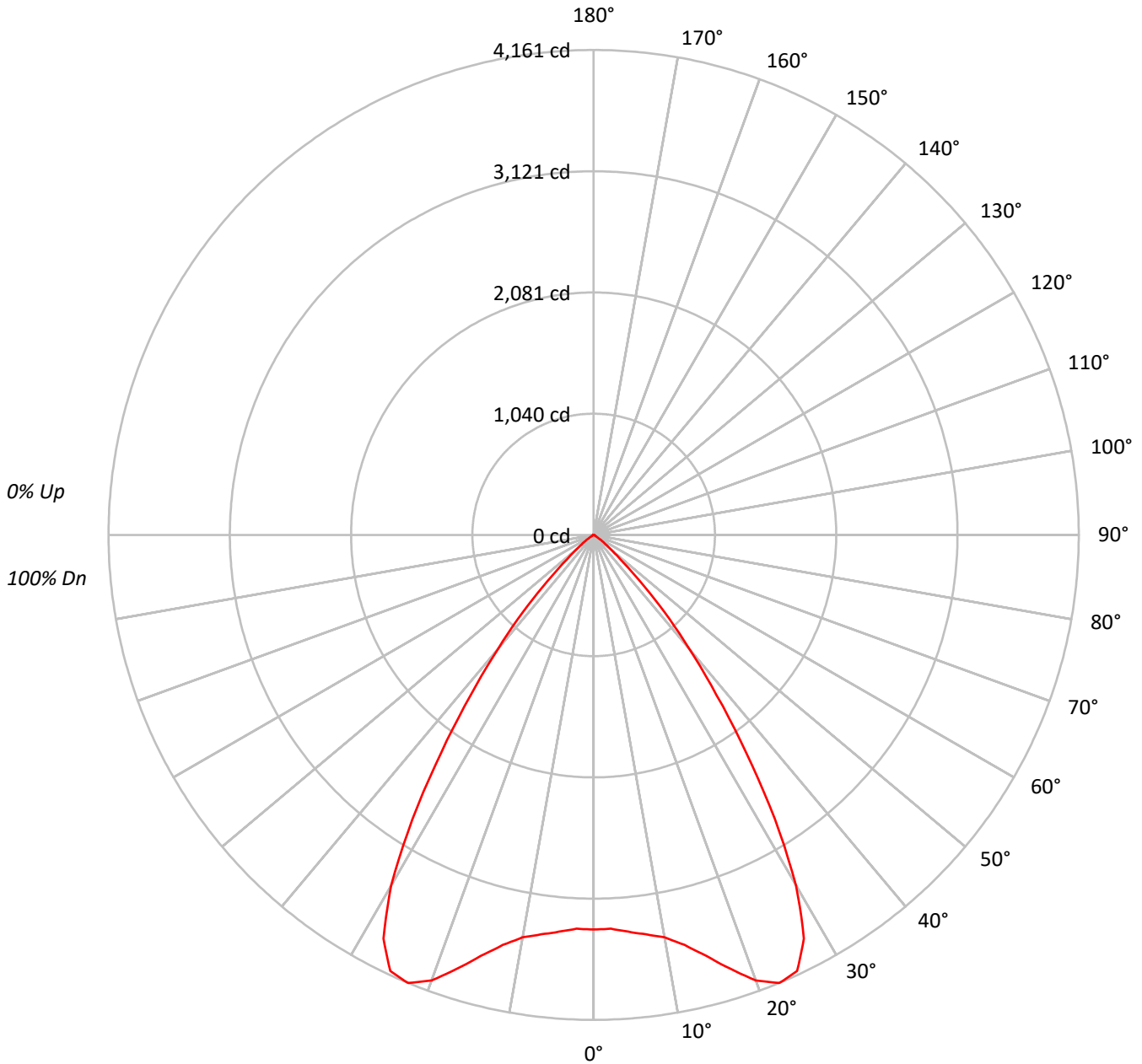
Lumens per Lamp: N/A
Luminaire Lumens: 5234.8 lumens
Efficiency: N/A
Efficacy: 109.1 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.28 / 1.09
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 48
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
1	113	110	108	105	111	108	106	103	104	102	100	100	99	97	97	96	94	93			93
2	107	102	97	94	105	100	96	93	97	94	91	94	91	89	91	89	87	85			85
3	101	94	89	85	99	93	88	84	90	86	82	88	84	81	85	82	80	78			78
4	95	87	81	77	93	86	80	76	84	79	75	82	78	74	80	76	74	72			72
5	90	81	75	70	88	80	74	70	78	73	69	76	72	68	75	71	68	66			66
6	85	75	69	64	83	74	68	64	73	67	63	71	67	63	70	66	62	61			61
7	80	70	63	59	79	69	63	59	68	62	58	67	62	58	66	61	58	56			56
8	76	65	59	54	74	65	59	54	64	58	54	62	57	54	61	57	53	52			52
9	71	61	55	50	70	60	54	50	60	54	50	59	53	50	58	53	50	48			48
10	68	57	51	47	67	57	51	47	56	50	46	55	50	46	54	50	46	45			45

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	185583
5°	188080
10°	195131
15°	212215
20°	237262
25°	249734
30°	219844
35°	152484
40°	91056
45°	43284
50°	16341
55°	6834
60°	2138
65°	1686
70°	1042
75°	678
80°	1010
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	328.9	6.3
10°-20°	1073.7	20.5
20°-30°	1839.8	35.1
30°-40°	1428.8	27.3
40°-50°	472.4	9.0
50°-60°	72.5	1.4
60°-70°	12.8	0.2
70°-80°	4.7	0.1
80°-90°	1.3	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°	3242.4	61.9
0°-40°	4671.2	89.2
0°-60°	5216.0	99.6
0°-90°	5234.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5234.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3385	
5°	3418	329
15°	3739	1074
25°	4129	1840
35°	2278	1429
45°	558	472
55°	72	72
65°	13	13
75°	3	5
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3385.3
2.5°	3382.1
5°	3417.8
7.5°	3456.8
10°	3505.4
12.5°	3602.9
15°	3739.2
17.5°	3904.7
20°	4067.0
22.5°	4161.1
25°	4128.7
27.5°	3904.7
30°	3473.0
32.5°	2892.0
35°	2278.5
37.5°	1730.0
40°	1272.4
42.5°	899.1
45°	558.3
47.5°	311.5
50°	191.6
52.5°	116.8
55°	71.5
57.5°	35.7
60°	19.5
62.5°	16.2
65°	13.0
67.5°	9.7
70°	6.5
72.5°	6.5
75°	3.2
77.5°	3.2
80°	3.2
82.5°	3.2
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)