

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: P582741

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

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582741
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-6)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC6W50D010BZ-HM64560835-61MDW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" MEDIUM DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

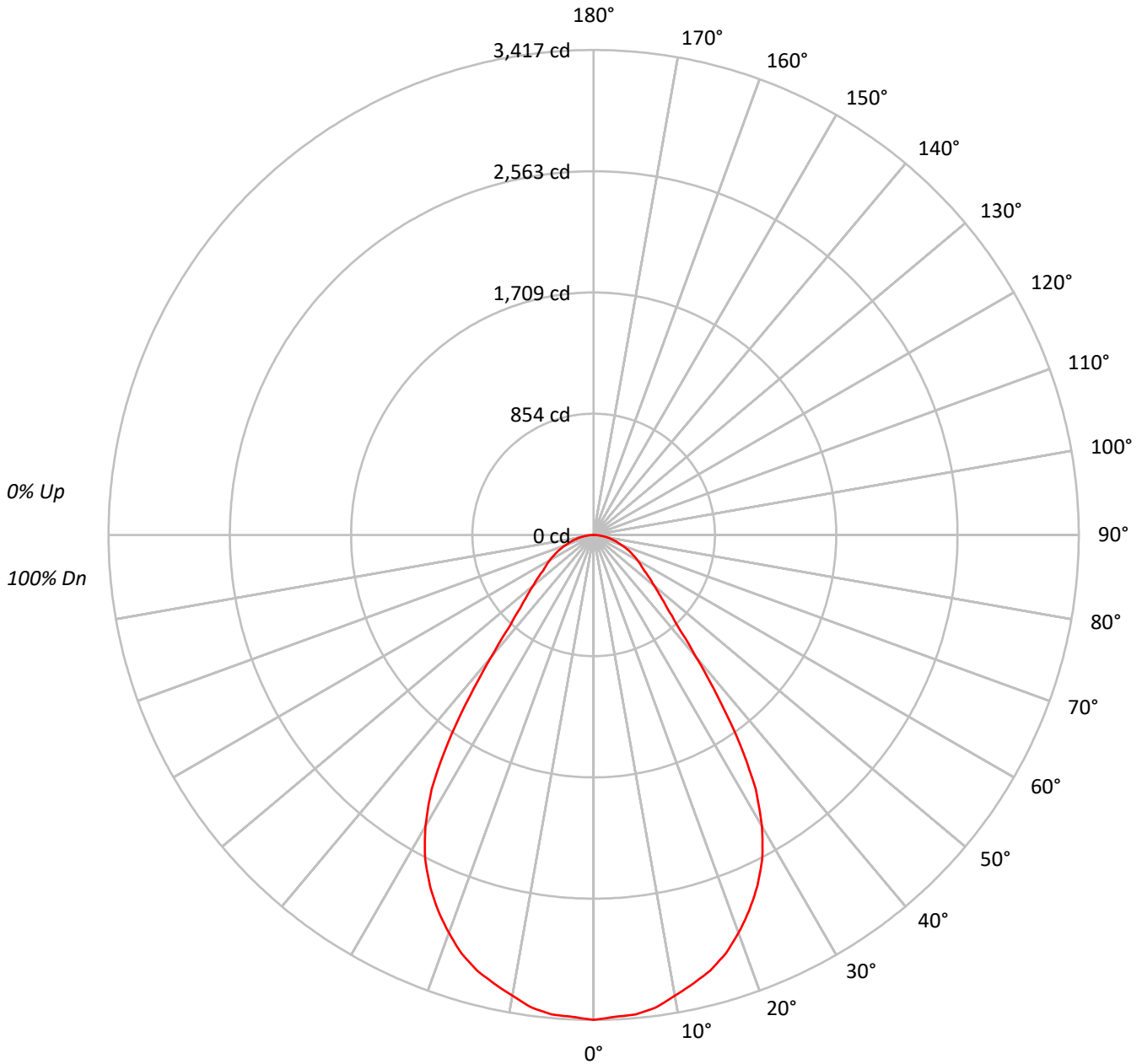
Lumens per Lamp: N/A
Luminaire Lumens: 5031.8 lumens
Efficiency: N/A
Efficacy: 104.8 lumens/watt
Spacing Criteria (0/90/45): 1.08 / 1.08 / 1.03
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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	111	108	104	101	109	105	102	100	101	99	96	97	95	94	94	92	91	89			89
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81	79			79
3	97	88	82	76	94	87	81	76	84	79	75	81	77	73	79	75	72	70			70
4	90	80	73	68	88	79	73	67	77	71	67	75	70	66	73	68	65	63			63
5	84	74	66	61	82	73	66	61	71	65	60	69	64	59	67	63	59	57			57
6	79	68	61	55	77	67	60	55	65	59	55	64	58	54	62	58	54	52			52
7	74	63	55	50	73	62	55	50	61	54	50	59	54	50	58	53	49	48			48
8	70	58	51	46	69	58	51	46	57	50	46	55	50	46	54	49	45	44			44
9	66	54	47	43	65	54	47	42	53	47	42	52	46	42	51	46	42	40			40
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	37			37

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	187315
5°	186627
10°	183508
15°	180279
20°	174047
25°	165040
30°	150112
35°	119946
40°	80029
45°	57052
50°	47529
55°	41432
60°	39142
65°	36852
70°	33868
75°	31644
80°	28760
85°	25160



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	320.7	6.4
10°-20°	891.9	17.7
20°-30°	1246.3	24.8
30°-40°	1097.9	21.8
40°-50°	593.1	11.8
50°-60°	396.6	7.9
60°-70°	281.1	5.6
70°-80°	158.0	3.1
80°-90°	46.0	0.9
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°	2459.0	48.9
0°-40°	3556.9	70.7
0°-60°	4546.6	90.4
0°-90°	5031.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5031.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3417	
5°	3391	321
15°	3176	892
25°	2728	1246
35°	1792	1098
45°	736	593
55°	434	397
65°	284	281
75°	149	158
85°	40	46
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	3416.9
2.5°	3398.7
5°	3391.4
7.5°	3358.6
10°	3296.6
12.5°	3238.4
15°	3176.5
17.5°	3092.7
20°	2983.4
22.5°	2863.2
25°	2728.5
27.5°	2571.7
30°	2371.4
32.5°	2123.7
35°	1792.3
37.5°	1431.6
40°	1118.3
42.5°	881.5
45°	735.9
47.5°	637.5
50°	557.3
52.5°	491.8
55°	433.5
57.5°	393.4
60°	357.0
62.5°	320.5
65°	284.1
67.5°	247.7
70°	211.3
72.5°	178.4
75°	149.4
77.5°	120.2
80°	91.1
82.5°	65.5
85°	40.0
87.5°	18.2
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)