

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: P583385

Luminaire Tested: **HCC6S07D010BZ-HM60525930-61WWWB**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P583385  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-18)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/16/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC6S07D010BZ-HM60525930-61WWWB  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, BLACK BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

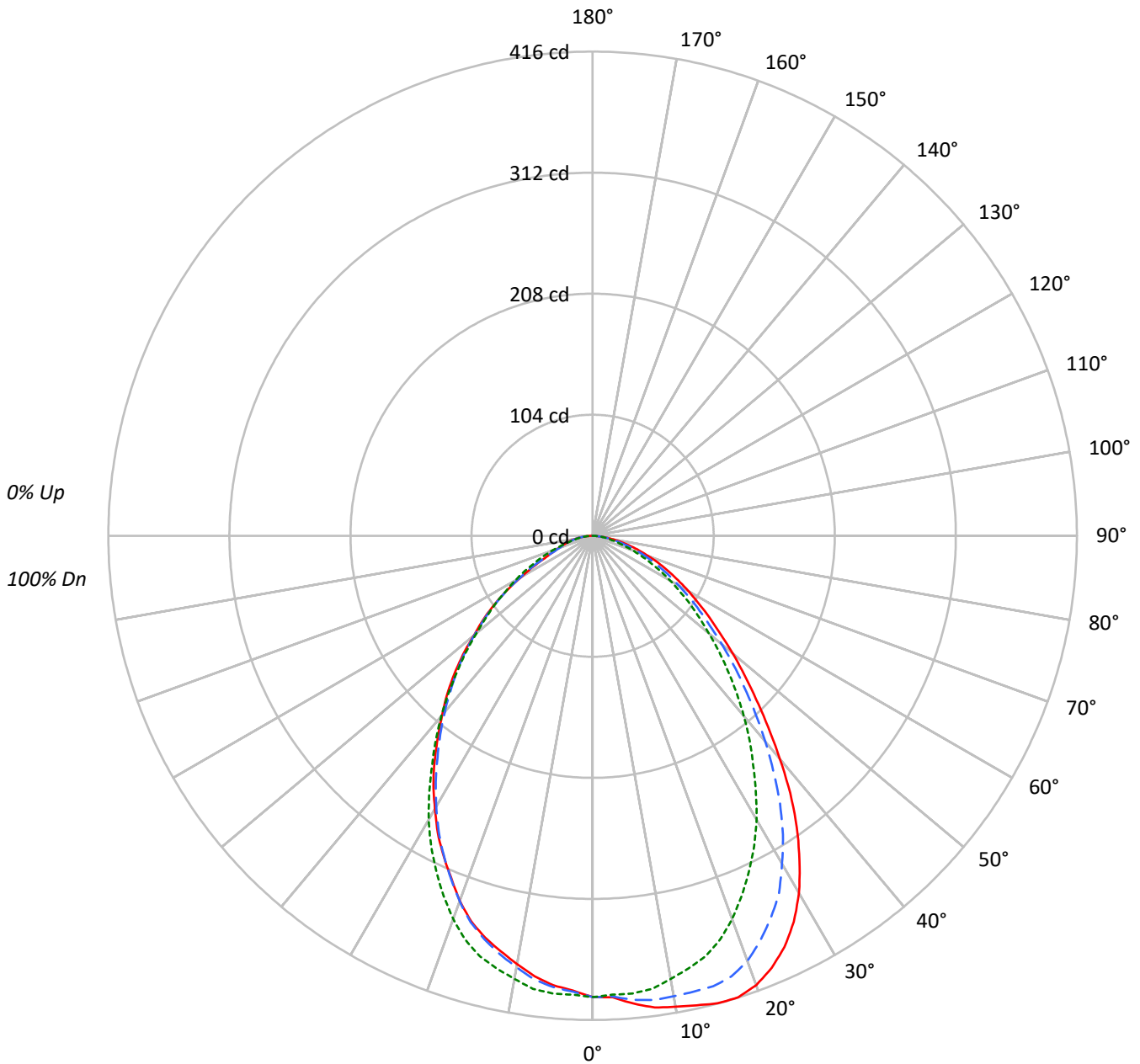
Lumens per Lamp: N/A  
Luminaire Lumens: 776.2 lumens  
Efficiency: N/A  
Efficacy: 97.0 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.09 / 1.17  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 8  
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								
1	111	107	103	100	108	104	101	98	100	97	95	96	94	92	93	91	89	87								
2	102	95	89	84	100	93	88	83	90	85	81	87	83	80	84	81	78	76								
3	94	85	78	72	92	84	77	72	81	75	71	78	73	69	76	72	68	66								
4	87	77	69	63	85	75	68	63	73	67	62	71	65	61	69	64	60	58								
5	81	70	61	56	79	68	61	55	66	60	55	65	59	54	63	58	54	52								
6	75	63	55	49	74	62	55	49	61	54	49	59	53	48	58	52	48	46								
7	70	58	50	44	69	57	50	44	56	49	44	54	48	44	53	48	43	42								
8	66	53	46	40	64	53	45	40	51	45	40	50	44	40	49	44	39	38								
9	62	49	42	37	60	49	42	37	48	41	36	47	41	36	46	40	36	34								
10	58	46	38	34	57	45	38	33	44	38	33	43	37	33	43	37	33	31								

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

	0°	90°	180°
0°	21725	21725	21725
5°	22204	21720	21335
10°	22873	21520	20802
15°	23598	21232	20278
20°	23971	20436	19462
25°	23584	19223	18340
30°	22446	17826	17142
35°	20472	16088	15841
40°	17905	14456	14377
45°	15405	12722	13017
50°	13390	11087	11317
55°	11699	9739	9835
60°	10383	8431	7719
65°	9275	7095	5889
70°	8158	5818	4937
75°	7011	4575	4702
80°	5651	3946	4609
85°	3774	3397	4088



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	37.5	4.8
10°-20°	106.8	13.8
20°-30°	152.5	19.6
30°-40°	159.8	20.6
40°-50°	134.5	17.3
50°-60°	95.7	12.3
60°-70°	56.0	7.2
70°-80°	26.5	3.4
80°-90°	6.8	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°	296.9	38.2
0°-40°	456.6	58.8
0°-60°	686.9	88.5
0°-90°	776.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	776.2	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	396	396	396	396	396	
5°	404	400	395	389	388	39
15°	416	401	374	359	357	117
25°	390	362	318	303	303	178
35°	306	280	240	232	237	190
45°	199	184	164	165	168	154
55°	122	112	102	102	103	110
65°	72	63	55	46	45	71
75°	33	28	22	21	22	35
85°	6	5	5	6	6	8
90°	0	0	0	0	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	396.3	396.3	396.3	396.3	396.3	396.3	396.3	396.3	396.3
2.5°	396.9	396.9	396.3	395.9	394.7	393.2	392.0	391.0	391.0
5°	403.5	402.3	400.2	397.5	394.7	391.5	389.3	387.7	387.7
7.5°	408.8	406.6	402.3	397.5	392.6	388.3	384.4	382.3	381.7
10°	410.9	408.3	401.8	394.2	386.6	380.7	376.4	373.7	373.7
12.5°	413.2	409.9	401.2	390.4	380.7	372.5	368.2	366.1	365.5
15°	415.8	411.5	400.7	387.1	374.1	364.9	359.0	357.3	357.3
17.5°	415.8	410.5	396.9	380.1	363.9	353.6	348.2	346.6	347.2
20°	410.9	405.0	388.8	368.2	350.3	339.6	334.1	333.0	333.6
22.5°	401.8	394.7	376.4	354.2	334.7	323.2	318.4	318.4	317.8
25°	389.9	382.3	362.2	339.0	317.8	306.5	302.7	303.2	303.2
27.5°	374.1	366.6	346.6	321.7	300.5	289.1	286.4	287.6	288.1
30°	354.6	346.6	325.4	301.0	281.6	270.2	268.6	270.2	270.8
32.5°	330.8	324.9	304.3	279.4	261.0	251.3	250.7	252.3	254.5
35°	305.9	299.5	280.5	257.8	240.4	232.3	232.3	235.0	236.7
37.5°	278.8	272.4	255.0	236.1	221.5	213.9	214.9	217.6	218.2
40°	250.2	245.3	230.7	214.5	202.0	196.0	197.6	200.3	200.9
42.5°	223.1	218.8	206.9	192.3	183.0	178.7	180.8	184.1	185.2
45°	198.7	193.9	184.1	171.6	164.1	161.9	164.6	166.8	167.9
47.5°	176.5	172.2	164.1	152.7	147.3	146.2	148.9	150.0	151.0
50°	157.0	152.7	144.6	134.3	130.0	130.0	132.1	133.2	132.7
52.5°	138.1	134.3	126.7	118.1	115.3	115.3	116.9	117.5	118.6
55°	122.4	118.6	112.1	104.0	101.9	100.7	101.9	101.9	102.9
57.5°	107.7	104.5	98.6	91.0	88.3	87.1	86.7	86.1	87.1
60°	94.7	92.0	85.5	79.1	76.9	74.2	72.1	69.9	70.4
62.5°	82.8	80.1	74.2	67.6	65.5	61.7	59.0	56.3	57.4
65°	71.5	68.8	63.3	57.9	54.7	50.3	46.0	44.4	45.4
67.5°	61.2	59.0	53.6	48.2	45.4	40.6	36.3	36.3	36.8
70°	50.9	48.7	44.4	39.5	36.3	32.0	30.4	30.8	30.8
72.5°	41.7	40.1	35.7	31.4	28.2	25.5	25.5	25.9	26.5
75°	33.1	32.0	27.6	23.8	21.6	20.1	21.1	21.6	22.2
77.5°	25.5	23.8	20.6	17.9	16.2	16.8	17.9	18.4	18.9
80°	17.9	17.3	14.6	13.0	12.5	13.0	14.0	14.6	14.6
82.5°	11.3	10.9	9.2	8.6	8.6	9.2	10.3	10.3	10.3
85°	6.0	5.4	4.9	4.9	5.4	6.0	6.5	6.5	6.5
87.5°	2.2	1.6	2.2	2.2	2.7	2.7	2.7	2.7	2.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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Scaled Data Report



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— 0°-180°    - - 45°-225°    - - - - 90°-270°

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