

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: P583295

Luminaire Tested: **HCC6S07D010SL-HM60525827-61WWWB**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P583295  
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: HCC6S07D010SL-HM60525827-61WWWB  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, BLACK BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

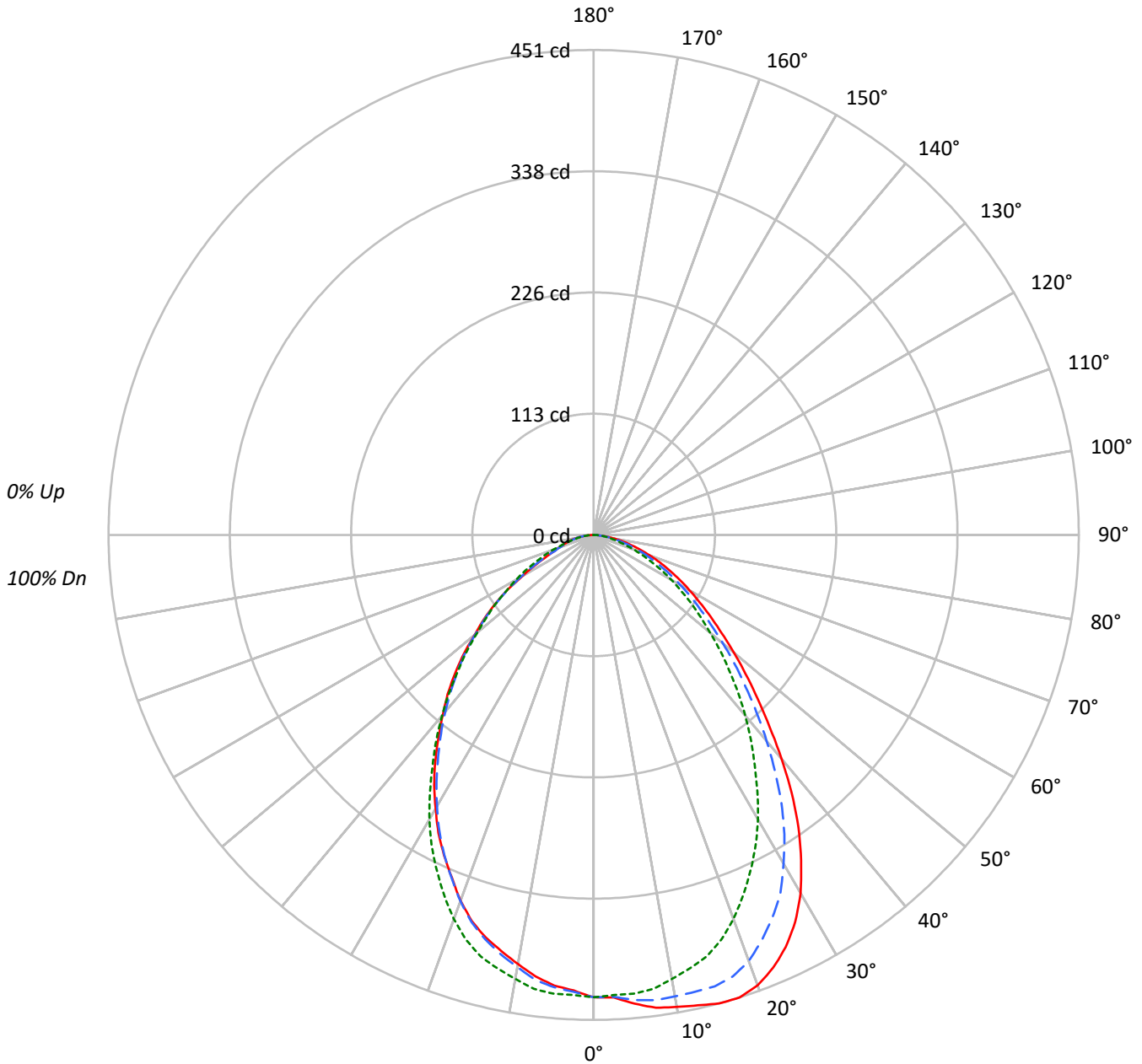
Lumens per Lamp: N/A  
Luminaire Lumens: 842.0 lumens  
Efficiency: N/A  
Efficacy: 105.2 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.09 / 1.17  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

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

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

	0°	90°	180°
0°	23573	23573	23573
5°	24081	23564	23145
10°	24816	23341	22561
15°	25596	23031	21998
20°	26007	22169	21107
25°	25574	20856	19894
30°	24352	19338	18591
35°	22212	17454	17172
40°	19422	15679	15594
45°	16707	13800	14118
50°	14524	12017	12273
55°	12692	10561	10666
60°	11271	9144	8377
65°	10053	7705	6395
70°	8848	6299	5353
75°	7583	4978	5105
80°	6125	4262	5020
85°	4088	3711	4403



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	40.7	4.8
10°-20°	115.9	13.8
20°-30°	165.4	19.6
30°-40°	173.3	20.6
40°-50°	145.9	17.3
50°-60°	103.8	12.3
60°-70°	60.8	7.2
70°-80°	28.8	3.4
80°-90°	7.4	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°	322.0	38.2
0°-40°	495.3	58.8
0°-60°	745.0	88.5
0°-90°	842.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	842.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	430	430	430	430	430	
5°	438	434	428	422	421	42
15°	451	435	406	389	388	127
25°	423	393	345	328	329	194
35°	332	304	261	252	257	206
45°	216	200	178	179	182	167
55°	133	122	110	110	112	120
65°	78	69	59	50	49	77
75°	36	30	24	23	24	38
85°	6	5	6	7	7	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°	430.0	430.0	430.0	430.0	430.0	430.0	430.0	430.0	430.0
2.5°	430.5	430.5	430.0	429.3	428.2	426.5	425.2	424.1	424.1
5°	437.6	436.4	434.1	431.1	428.2	424.6	422.3	420.6	420.6
7.5°	443.5	441.1	436.4	431.1	425.8	421.1	417.1	414.7	414.1
10°	445.8	442.9	435.8	427.6	419.3	412.9	408.2	405.3	405.3
12.5°	448.1	444.6	435.2	423.5	412.9	404.1	399.4	397.0	396.4
15°	451.0	446.4	434.6	419.9	405.8	395.9	389.4	387.6	387.6
17.5°	451.0	445.2	430.5	412.3	394.7	383.5	377.6	375.9	376.5
20°	445.8	439.4	421.7	399.4	380.0	368.2	362.3	361.2	361.8
22.5°	435.8	428.2	408.2	384.1	363.0	350.7	345.3	345.3	344.8
25°	422.8	414.7	392.9	367.7	344.8	332.4	328.3	328.9	328.9
27.5°	405.8	397.7	375.9	348.9	326.0	313.6	310.7	311.9	312.5
30°	384.7	375.9	353.0	326.5	305.5	293.1	291.3	293.1	293.7
32.5°	358.8	352.4	330.0	303.1	283.1	272.5	271.9	273.7	276.0
35°	331.9	324.8	304.2	279.6	260.8	252.0	252.0	254.9	256.6
37.5°	302.5	295.5	276.7	256.1	240.2	232.0	233.2	236.1	236.7
40°	271.4	266.0	250.2	232.6	219.1	212.7	214.4	217.3	217.9
42.5°	242.0	237.3	224.3	208.5	198.5	193.9	196.1	199.7	200.9
45°	215.5	210.3	199.7	186.2	178.0	175.6	178.6	180.9	182.1
47.5°	191.5	186.7	178.0	165.6	159.8	158.6	161.6	162.7	163.8
50°	170.3	165.6	156.8	145.7	140.9	140.9	143.3	144.5	143.9
52.5°	149.8	145.7	137.4	128.0	125.1	125.1	126.9	127.5	128.6
55°	132.8	128.6	121.6	112.7	110.5	109.2	110.5	110.5	111.6
57.5°	116.9	113.3	106.8	98.7	95.7	94.6	93.9	93.4	94.6
60°	102.8	99.8	92.8	85.8	83.4	80.4	78.1	75.8	76.4
62.5°	89.8	86.9	80.4	73.4	71.0	67.0	64.0	61.1	62.2
65°	77.5	74.6	68.8	62.9	59.4	54.6	50.0	48.2	49.3
67.5°	66.4	64.0	58.1	52.2	49.3	44.1	39.3	39.3	40.0
70°	55.2	52.9	48.2	42.8	39.3	34.7	32.9	33.4	33.4
72.5°	45.2	43.5	38.7	34.1	30.6	27.6	27.6	28.2	28.8
75°	35.8	34.7	29.9	25.8	23.5	21.8	22.9	23.5	24.1
77.5°	27.6	25.8	22.3	19.4	17.7	18.2	19.4	19.9	20.5
80°	19.4	18.8	15.9	14.0	13.5	14.0	15.3	15.9	15.9
82.5°	12.3	11.8	10.0	9.4	9.4	10.0	11.1	11.1	11.1
85°	6.5	5.9	5.3	5.3	5.9	6.5	7.0	7.0	7.0
87.5°	2.4	1.8	2.4	2.4	2.9	2.9	2.9	2.9	2.9
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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