

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: P581936

Luminaire Tested: **HCC6S20D010MB-HM60525930-61RWWC**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P581936  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-14)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/16/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC6S20D010MB-HM60525930-61RWWC  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, SPECULAR TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

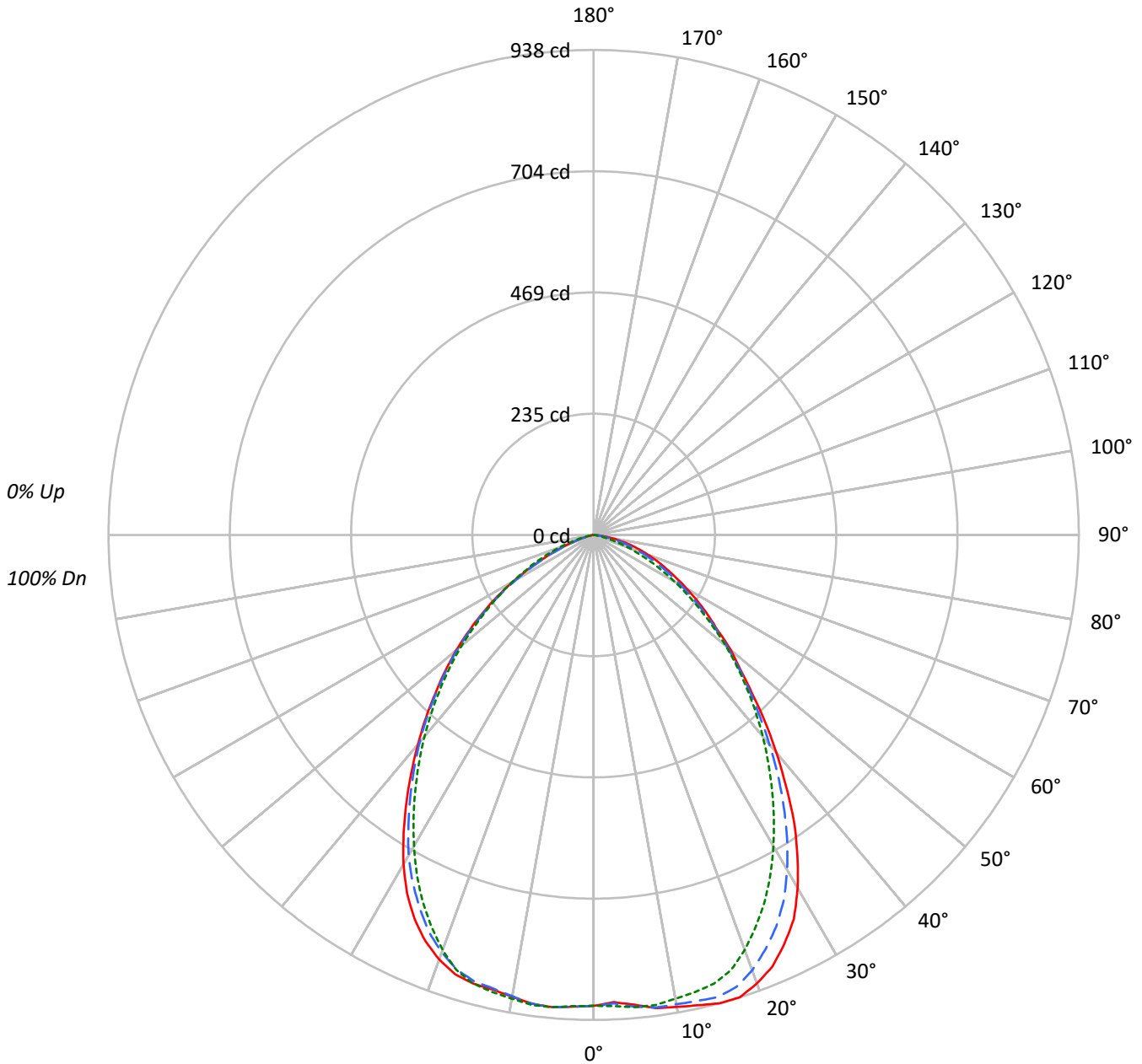
Lumens per Lamp: N/A  
Luminaire Lumens: 1838.7 lumens  
Efficiency: N/A  
Efficacy: 91.9 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.15 / 1.2  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 20  
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	104	101	108	105	102	99	101	98	96	97	95	93	94	92	90	88					88			
2	103	96	90	86	100	94	89	85	91	86	83	88	84	81	85	82	79	77					77			
3	95	86	79	74	93	85	78	73	82	76	72	79	75	71	77	73	69	68					68			
4	88	78	70	64	86	76	69	64	74	68	63	72	67	62	70	65	61	60					60			
5	82	70	62	57	80	69	62	56	67	61	56	65	60	55	64	59	55	53					53			
6	76	64	56	50	74	63	56	50	62	55	50	60	54	49	58	53	49	47					47			
7	71	59	51	45	69	58	50	45	56	50	45	55	49	45	54	48	44	42					42			
8	66	54	46	41	65	53	46	41	52	45	41	51	45	40	50	44	40	38					38			
9	62	50	42	37	61	49	42	37	48	42	37	47	41	37	46	41	37	35					35			
10	59	46	39	34	57	46	39	34	45	38	34	44	38	34	43	38	34	32					32			

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

	0°	90°	180°
0°	49930	49930	49930
5°	50187	50457	50457
10°	51591	50700	50495
15°	53230	50993	50993
20°	53858	49827	50976
25°	52775	47325	49569
30°	49919	43981	46558
35°	45173	40227	42202
40°	39302	36390	37799
45°	33577	32437	33577
50°	29475	28417	29577
55°	25720	23942	24888
60°	22728	19889	19615
65°	20158	15683	13452
70°	17791	11076	8110
75°	15166	6270	3918
80°	11302	1926	1168
85°	6227	755	755



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	87.4	4.8
10°-20°	255.6	13.9
20°-30°	373.3	20.3
30°-40°	391.5	21.3
40°-50°	329.8	17.9
50°-60°	231.1	12.6
60°-70°	123.9	6.7
70°-80°	41.5	2.3
80°-90°	4.5	0.2
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°	716.3	39.0
0°-40°	1107.8	60.2
0°-60°	1668.8	90.8
0°-90°	1838.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1838.7	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	911	911	911	911	911	
5°	912	916	917	917	917	88
15°	938	926	898	894	898	265
25°	872	836	782	796	820	400
35°	675	640	601	618	631	419
45°	433	426	418	430	433	337
55°	269	260	250	256	260	242
65°	155	142	121	100	104	155
75°	72	56	30	18	18	76
85°	10	5	1	1	1	14
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°	910.8	910.8	910.8	910.8	910.8	910.8	910.8	910.8	910.8
2.5°	904.6	904.6	907.1	909.6	912.0	912.0	913.2	914.4	913.2
5°	912.0	912.0	915.7	916.9	916.9	915.7	916.9	916.9	916.9
7.5°	923.2	920.7	921.9	919.4	916.9	915.7	914.4	914.4	914.4
10°	926.8	924.3	921.9	916.9	910.8	907.1	905.8	907.1	907.1
12.5°	931.8	929.3	923.2	913.2	905.8	899.7	898.5	900.8	900.8
15°	937.9	935.4	925.5	909.6	898.5	892.2	893.5	896.0	898.5
17.5°	937.9	933.0	916.9	896.0	882.4	876.3	881.1	887.4	891.0
20°	923.2	918.2	896.0	870.0	854.1	850.3	858.9	870.0	873.8
22.5°	903.3	893.5	867.5	836.7	819.5	819.5	831.7	845.3	850.3
25°	872.5	865.2	835.5	799.7	782.4	781.2	796.0	814.5	819.5
27.5°	838.0	828.1	796.0	759.0	740.4	741.7	757.8	776.2	781.2
30°	788.6	776.2	747.9	712.1	694.8	699.7	715.8	729.3	735.5
32.5°	733.1	721.9	696.0	662.7	648.0	652.8	666.4	678.8	683.7
35°	675.0	662.7	640.5	610.9	601.1	605.9	618.3	628.1	630.6
37.5°	609.7	601.1	585.0	561.5	554.2	560.3	570.1	576.4	578.8
40°	549.2	541.8	528.2	510.9	508.5	513.4	523.2	527.0	528.2
42.5°	489.9	483.8	475.2	462.8	462.8	467.7	476.3	478.8	480.1
45°	433.1	429.5	425.8	415.9	418.4	424.5	429.5	433.1	433.1
47.5°	383.9	385.0	380.1	372.6	375.1	381.4	385.0	388.7	388.7
50°	345.6	341.8	337.0	329.5	333.2	338.2	343.1	345.6	346.8
52.5°	301.2	299.9	296.2	287.6	290.0	292.4	297.4	301.2	302.4
55°	269.1	265.3	260.4	250.5	250.5	253.0	255.5	258.0	260.4
57.5°	238.2	234.5	227.1	215.9	214.7	214.7	213.5	215.9	219.7
60°	207.3	206.1	195.0	185.1	181.4	177.8	172.8	174.0	178.9
62.5°	180.1	177.8	167.8	155.4	148.1	142.0	135.7	134.5	139.5
65°	155.4	153.1	142.0	129.6	120.9	109.8	99.9	99.9	103.7
67.5°	133.2	128.4	118.5	104.9	93.8	80.2	70.4	72.9	74.1
70°	111.0	107.4	96.3	82.7	69.1	55.5	49.4	50.6	50.6
72.5°	91.3	86.3	75.2	61.7	48.2	35.8	33.3	32.1	32.1
75°	71.6	66.6	55.5	41.9	29.6	21.0	18.5	18.5	18.5
77.5°	51.8	48.2	38.3	25.9	16.1	9.9	8.6	7.4	7.4
80°	35.8	32.1	23.5	13.6	6.1	3.7	3.7	3.7	3.7
82.5°	21.0	17.2	11.1	6.1	2.5	1.2	1.2	1.2	1.2
85°	9.9	7.4	5.0	2.5	1.2	1.2	1.2	1.2	1.2
87.5°	1.2	1.2	1.2	0.0	0.0	0.0	0.0	0.0	0.0
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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