

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: P581847

Luminaire Tested: **HCC6S20D010MW-HM60525827-61RWWH**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P581847  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-15)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/16/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC6S20D010MW-HM60525827-61RWWH  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

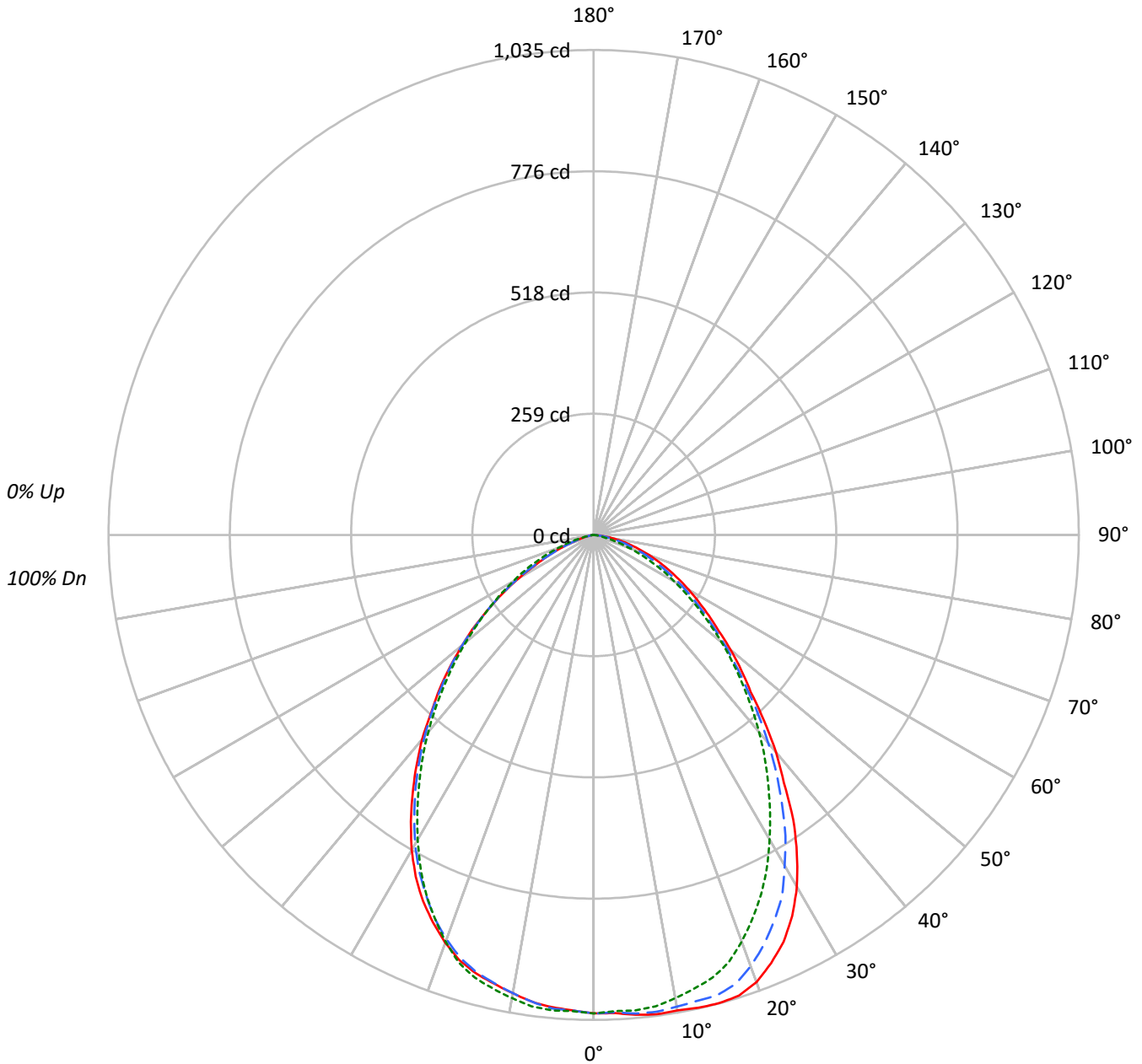
Lumens per Lamp: N/A  
Luminaire Lumens: 2001.1 lumens  
Efficiency: N/A  
Efficacy: 100.1 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.19  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

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	0					
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100								
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88								
2	103	96	90	85	100	94	89	84	91	86	83	87	84	81	85	82	79	77								
3	95	86	79	74	93	84	78	73	82	76	72	79	74	70	77	73	69	67								
4	88	78	70	64	86	76	69	64	74	68	63	72	66	62	70	65	61	59								
5	82	70	62	57	80	69	62	56	67	61	56	65	60	55	64	59	55	53								
6	76	64	56	50	74	63	56	50	61	55	50	60	54	49	58	53	49	47								
7	71	59	51	45	69	58	50	45	56	50	45	55	49	44	54	48	44	42								
8	66	54	46	41	65	53	46	41	52	45	41	51	45	40	50	44	40	38								
9	62	50	42	37	61	49	42	37	48	42	37	47	41	37	46	41	37	35								
10	59	46	39	34	57	46	39	34	45	38	34	44	38	34	43	38	34	32								

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

	0°	90°	180°
0°	55988	55988	55988
5°	56570	56053	55684
10°	57369	55877	55287
15°	58723	55534	55000
20°	59260	53876	54033
25°	57965	51166	52140
30°	54901	47526	49140
35°	49710	43440	45053
40°	43295	39266	40712
45°	36732	34756	36004
50°	32536	30361	31163
55°	28654	25968	25834
60°	25678	21862	20097
65°	22908	17538	14411
70°	20164	12662	9008
75°	17008	7646	5105
80°	13101	3410	2115
85°	7548	881	881



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	96.9	4.8
10°-20°	278.6	13.9
20°-30°	402.7	20.1
30°-40°	423.8	21.2
40°-50°	356.2	17.8
50°-60°	250.0	12.5
60°-70°	137.5	6.9
70°-80°	48.8	2.4
80°-90°	6.4	0.3
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°	778.3	38.9
0°-40°	1202.0	60.1
0°-60°	1808.3	90.4
0°-90°	2001.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2001.1	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1021	1021	1021	1021	1021	
5°	1028	1025	1019	1015	1012	98
15°	1035	1017	978	966	969	292
25°	958	910	846	847	862	438
35°	743	700	649	663	673	460
45°	474	460	448	459	464	372
55°	300	284	272	272	270	270
65°	177	158	135	111	111	176
75°	80	64	36	24	24	86
85°	12	7	1	1	1	17
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°	1021.3	1021.3	1021.3	1021.3	1021.3	1021.3	1021.3	1021.3	1021.3
2.5°	1021.3	1021.3	1019.9	1019.9	1017.2	1017.2	1015.8	1015.8	1015.8
5°	1028.0	1028.0	1025.3	1021.3	1018.6	1014.6	1014.6	1013.2	1011.9
7.5°	1031.9	1030.6	1026.6	1021.3	1014.6	1007.8	1005.2	1006.6	1005.2
10°	1030.6	1028.0	1022.5	1011.9	1003.8	994.4	993.2	991.8	993.2
12.5°	1033.3	1029.2	1018.6	1005.2	991.8	981.1	979.7	979.7	981.1
15°	1034.7	1030.6	1017.2	997.2	978.5	967.7	966.3	967.7	969.1
17.5°	1030.6	1025.3	1005.2	978.5	957.0	946.3	946.3	949.0	951.6
20°	1015.8	1007.8	979.7	947.6	923.5	915.5	918.2	923.5	926.2
22.5°	989.1	979.7	947.6	911.5	886.0	879.3	886.0	892.8	895.4
25°	958.3	947.6	910.1	872.6	845.9	837.9	847.3	857.9	862.0
27.5°	916.8	904.8	870.0	827.2	800.4	796.4	807.0	819.2	821.8
30°	867.3	853.9	815.1	775.0	750.8	749.5	761.6	772.3	776.3
32.5°	807.0	795.0	761.6	721.4	700.0	700.0	712.1	721.4	725.5
35°	742.8	729.4	700.0	666.5	649.1	650.5	662.6	669.3	673.2
37.5°	666.5	662.6	639.8	611.7	599.6	602.3	611.7	617.0	621.0
40°	605.0	594.3	579.5	556.8	548.7	551.4	560.8	566.2	568.9
42.5°	538.1	531.4	519.4	503.3	498.0	501.9	510.0	513.9	512.7
45°	473.8	472.5	460.5	451.0	448.3	453.8	459.1	463.1	464.4
47.5°	426.9	421.6	410.9	404.3	401.5	406.9	412.3	414.9	414.9
50°	381.5	376.2	365.4	358.7	356.0	361.4	365.4	368.1	365.4
52.5°	335.9	330.6	321.2	313.2	311.9	314.5	315.9	317.2	319.8
55°	299.8	294.5	283.7	274.4	271.7	273.1	271.7	271.7	270.3
57.5°	265.0	259.7	248.9	238.3	234.2	232.9	228.9	227.5	226.1
60°	234.2	227.5	216.9	204.7	199.4	194.1	187.4	183.3	183.3
62.5°	204.7	198.0	186.0	175.4	167.3	157.9	147.2	141.9	141.9
65°	176.6	171.3	157.9	145.9	135.2	123.2	111.1	108.4	111.1
67.5°	149.9	144.6	131.2	119.1	105.7	91.0	80.3	80.3	82.9
70°	125.8	120.4	108.4	93.7	79.0	64.2	56.2	56.2	56.2
72.5°	103.1	97.7	84.3	70.9	56.2	41.5	37.5	38.9	37.5
75°	80.3	76.3	64.2	49.5	36.1	25.4	24.1	22.8	24.1
77.5°	60.3	56.2	45.5	32.2	20.1	14.7	13.4	13.4	13.4
80°	41.5	37.5	29.5	18.7	10.8	6.7	6.7	6.7	6.7
82.5°	25.4	21.4	16.1	9.4	4.0	4.0	4.0	4.0	4.0
85°	12.0	9.4	6.7	2.7	1.4	1.4	1.4	1.4	1.4
87.5°	2.7	2.7	1.4	1.4	0.0	1.4	1.4	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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