

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: P593051

Luminaire Tested: **HCC6W07D010MB-HM60525950-61WWWB**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P593051  
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: HCC6W07D010MB-HM60525950-61WWWB  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, BLACK BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

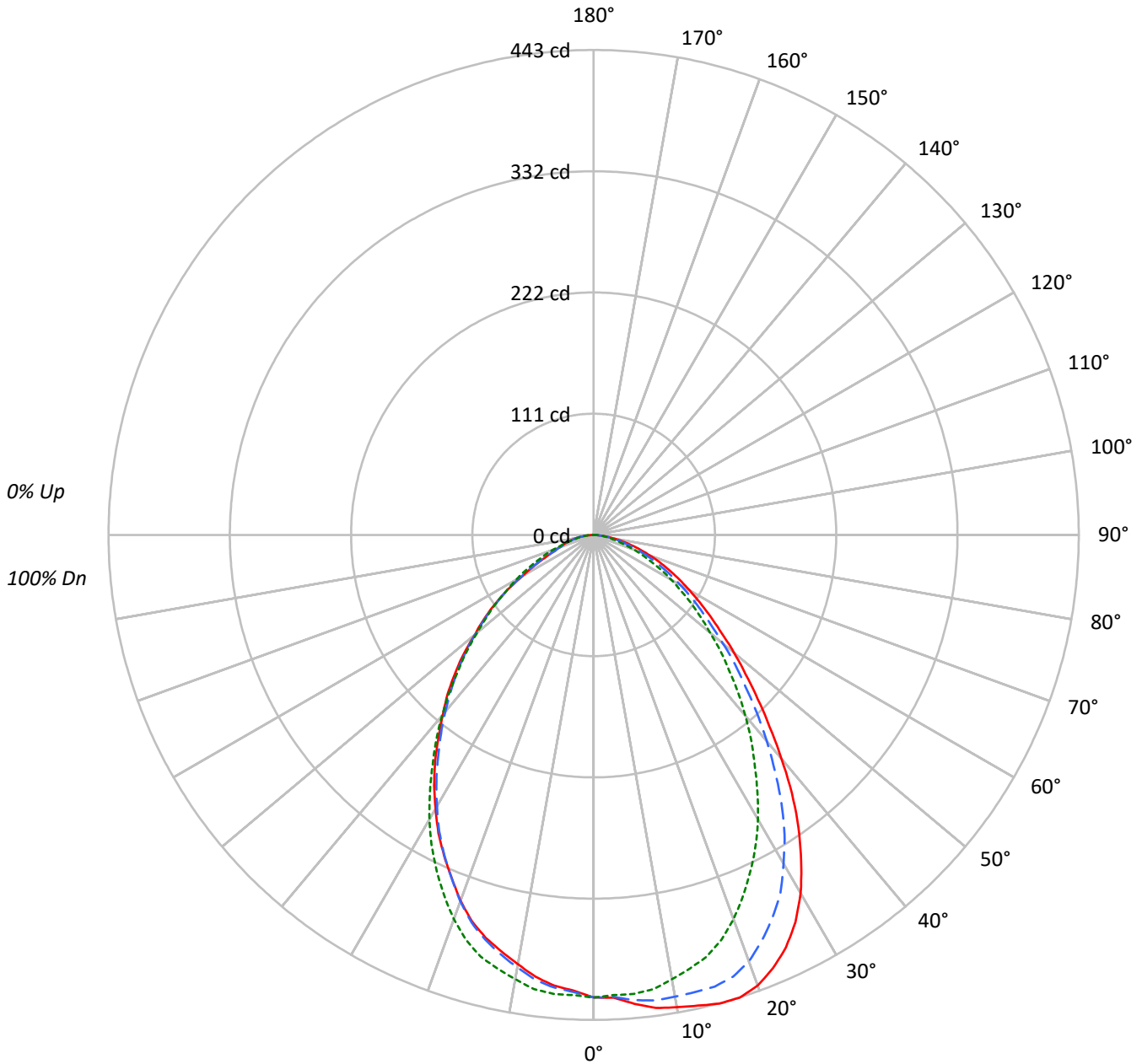
Lumens per Lamp: N/A  
Luminaire Lumens: 827.4 lumens  
Efficiency: N/A  
Efficacy: 103.4 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.09 / 1.17  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

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



TEST NUMBER: P593051  
CATALOG NUMBER: HCC6W07D010MB-HM60525950-61WWWB

### Luminous Intensity Polar Plot





TEST NUMBER: P593051

CATALOG NUMBER: HCC6W07D010MB-HM60525950-61WWWB

**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	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°	23162	23162	23162
5°	23663	23156	22744
10°	24387	22940	22166
15°	25153	22634	21618
20°	25558	21784	20739
25°	25139	20493	19550
30°	23934	18997	18269
35°	21824	17152	16878
40°	19086	15407	15322
45°	16428	13560	13870
50°	14268	11821	12059
55°	12463	10370	10485
60°	11085	8980	8223
65°	9871	7562	6291
70°	8703	6187	5273
75°	7456	4893	5020
80°	5998	4199	4925
85°	3963	3648	4340



TEST NUMBER: P593051  
 CATALOG NUMBER: HCC6W07D010MB-HM60525950-61WWWB

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	40.0	4.8
10°-20°	113.9	13.8
20°-30°	162.6	19.6
30°-40°	170.3	20.6
40°-50°	143.4	17.3
50°-60°	102.0	12.3
60°-70°	59.7	7.2
70°-80°	28.3	3.4
80°-90°	7.3	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°	316.4	38.2
0°-40°	486.7	58.8
0°-60°	732.1	88.5
0°-90°	827.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	827.4	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	422	422	422	422	422	
5°	430	427	421	415	413	41
15°	443	427	399	383	381	125
25°	416	386	339	323	323	190
35°	326	299	256	248	252	203
45°	212	196	175	176	179	164
55°	130	120	108	108	110	118
65°	76	68	58	49	48	76
75°	35	30	23	22	24	38
85°	6	5	6	7	7	8
90°	0	0	0	0	0	

Cooper Lighting Solutions Photometric Lab  
 1121 Highway 74 South  
 Peachtree City, GA 30269



TEST NUMBER: P593051

CATALOG NUMBER: HCC6W07D010MB-HM60525950-61WWWB

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	422.5	422.5	422.5	422.5	422.5	422.5	422.5	422.5	422.5
2.5°	423.1	423.1	422.5	421.9	420.8	419.1	417.9	416.7	416.7
5°	430.0	428.8	426.6	423.6	420.8	417.3	415.0	413.3	413.3
7.5°	435.8	433.5	428.8	423.6	418.4	413.9	409.8	407.5	407.0
10°	438.1	435.2	428.3	420.2	412.1	405.7	401.2	398.2	398.2
12.5°	440.4	436.9	427.7	416.2	405.7	397.1	392.5	390.2	389.6
15°	443.2	438.7	427.1	412.6	398.8	389.1	382.7	380.9	380.9
17.5°	443.2	437.6	423.1	405.2	387.8	376.9	371.2	369.4	369.9
20°	438.1	431.8	414.5	392.5	373.4	361.9	356.1	355.0	355.5
22.5°	428.3	420.8	401.2	377.5	356.7	344.5	339.3	339.3	338.8
25°	415.6	407.5	386.1	361.3	338.8	326.6	322.7	323.2	323.2
27.5°	398.8	390.8	369.4	342.8	320.3	308.2	305.3	306.5	307.0
30°	378.1	369.4	346.9	320.9	300.1	288.0	286.3	288.0	288.6
32.5°	352.7	346.4	324.4	297.9	278.2	267.8	267.3	269.0	271.2
35°	326.1	319.2	299.0	274.8	256.3	247.6	247.6	250.5	252.2
37.5°	297.3	290.3	271.8	251.6	236.1	228.0	229.1	232.0	232.6
40°	266.7	261.5	245.9	228.5	215.3	208.9	210.6	213.6	214.1
42.5°	237.8	233.2	220.5	204.8	195.1	190.5	192.8	196.2	197.4
45°	211.9	206.7	196.2	183.0	174.9	172.6	175.5	177.8	178.9
47.5°	188.2	183.5	174.9	162.8	157.0	155.8	158.7	159.9	161.0
50°	167.3	162.8	154.1	143.1	138.6	138.6	140.8	142.0	141.4
52.5°	147.2	143.1	135.1	125.9	122.9	122.9	124.6	125.2	126.4
55°	130.4	126.4	119.5	110.8	108.5	107.4	108.5	108.5	109.7
57.5°	114.9	111.4	105.0	97.0	94.0	92.9	92.3	91.8	92.9
60°	101.1	98.1	91.2	84.3	81.9	79.1	76.8	74.4	75.0
62.5°	88.3	85.4	79.1	72.2	69.8	65.8	62.9	60.0	61.2
65°	76.1	73.3	67.5	61.7	58.3	53.7	49.1	47.4	48.5
67.5°	65.3	62.9	57.1	51.3	48.5	43.3	38.6	38.6	39.2
70°	54.3	51.9	47.4	42.1	38.6	34.1	32.3	32.9	32.9
72.5°	44.4	42.7	38.1	33.4	30.0	27.1	27.1	27.8	28.3
75°	35.2	34.1	29.5	25.4	23.1	21.3	22.5	23.1	23.7
77.5°	27.1	25.4	22.0	19.0	17.3	17.9	19.0	19.6	20.2
80°	19.0	18.5	15.6	13.8	13.3	13.8	15.0	15.6	15.6
82.5°	12.1	11.6	9.9	9.3	9.3	9.9	11.0	11.0	11.0
85°	6.3	5.8	5.2	5.2	5.8	6.3	6.9	6.9	6.9
87.5°	2.3	1.7	2.3	2.3	2.8	2.8	2.8	2.8	2.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Classified  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



Report Generated By 670245859 / DESKTOP-T8S5UU9

Classified  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report





Classified  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



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

Classified  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



Classified  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



Classified  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



(END OF REPORT)