

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: P581855

Luminaire Tested: **HCC6W20D010MB-HM60525827-61WWWB**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P581855  
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: HCC6W20D010MB-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**

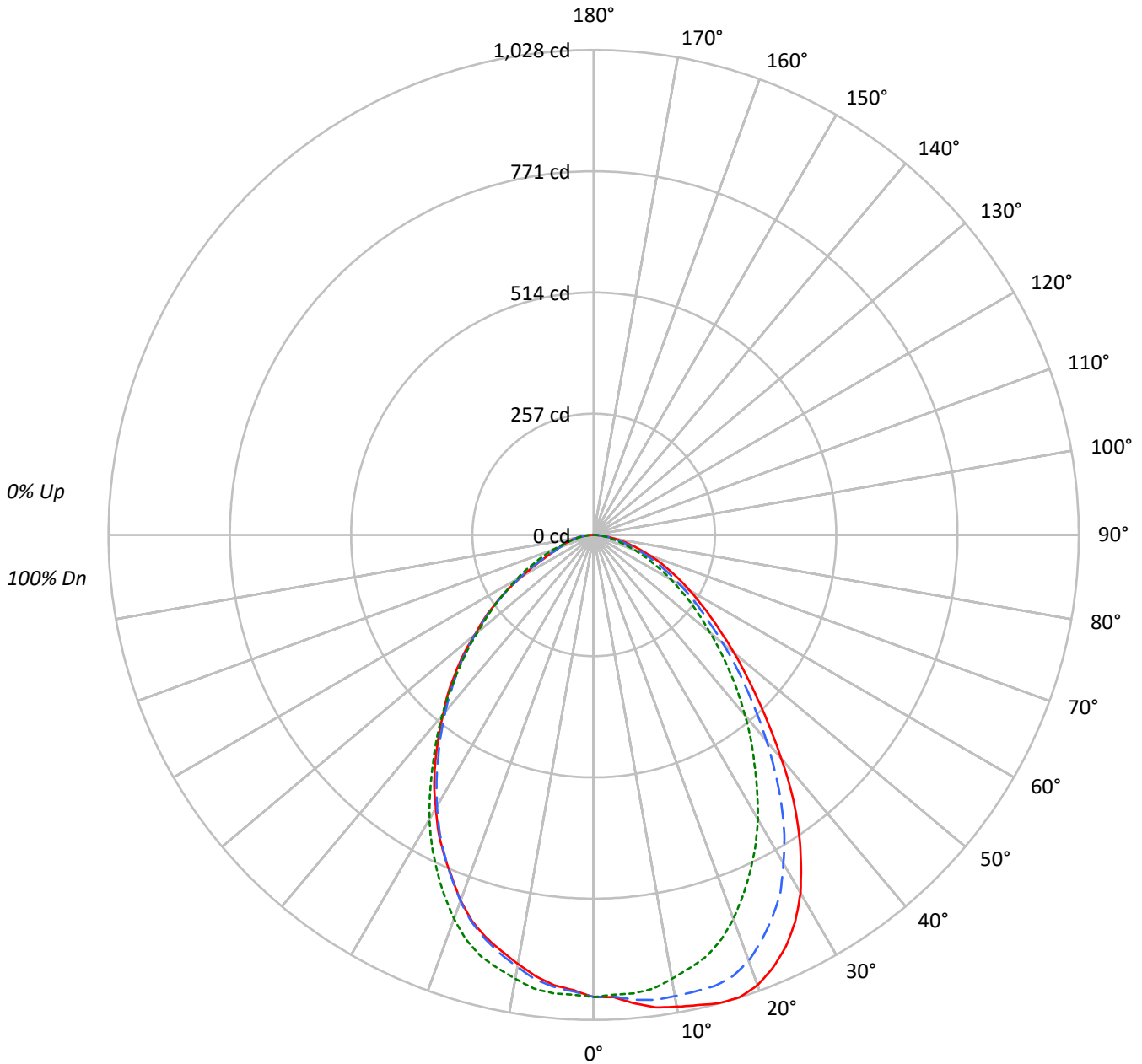
Lumens per Lamp: N/A  
Luminaire Lumens: 1918.1 lumens  
Efficiency: N/A  
Efficacy: 95.9 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.09 / 1.17  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 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	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°	53696	53696	53696
5°	54853	53676	52724
10°	56534	53178	51396
15°	58320	52475	50119
20°	59248	50504	48088
25°	58274	47507	45323
30°	55477	44045	42348
35°	50587	39759	39130
40°	44240	35717	35524
45°	38066	31430	32158
50°	33099	27385	27956
55°	28902	24037	24295
60°	25678	20832	19066
65°	22908	17538	14580
70°	20164	14361	12230
75°	17284	11332	11607
80°	13954	9723	11397
85°	9246	8428	10127



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	92.7	4.8
10°-20°	264.0	13.8
20°-30°	376.9	19.6
30°-40°	394.8	20.6
40°-50°	332.4	17.3
50°-60°	236.5	12.3
60°-70°	138.5	7.2
70°-80°	65.5	3.4
80°-90°	16.9	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°	733.6	38.2
0°-40°	1128.4	58.8
0°-60°	1697.3	88.5
0°-90°	1918.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1918.1	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	980	980	980	980	980	
5°	997	989	975	962	958	96
15°	1028	990	925	887	883	290
25°	963	895	785	748	749	441
35°	756	693	594	574	585	470
45°	491	455	405	407	415	381
55°	302	277	252	252	254	273
65°	177	157	135	114	112	176
75°	82	68	54	52	55	88
85°	15	12	13	16	16	19
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°	979.5	979.5	979.5	979.5	979.5	979.5	979.5	979.5	979.5
2.5°	980.8	980.8	979.5	978.1	975.4	971.4	968.7	966.1	966.1
5°	996.8	994.2	988.8	982.1	975.4	967.4	962.0	958.1	958.1
7.5°	1010.2	1004.9	994.2	982.1	970.1	959.4	950.0	944.7	943.3
10°	1015.6	1008.9	992.8	974.0	955.3	940.6	930.0	923.3	923.3
12.5°	1020.9	1012.9	991.5	964.7	940.6	920.6	909.9	904.5	903.2
15°	1027.6	1016.9	990.1	956.7	924.6	901.9	887.1	883.1	883.1
17.5°	1027.6	1014.3	980.8	939.3	899.1	873.8	860.4	856.3	857.7
20°	1015.6	1000.9	960.7	909.9	865.7	839.0	825.6	822.9	824.3
22.5°	992.8	975.4	930.0	875.1	826.9	798.8	786.8	786.8	785.4
25°	963.4	944.7	895.2	837.6	785.4	757.3	748.0	749.3	749.3
27.5°	924.6	905.8	856.3	794.8	742.6	714.5	707.8	710.5	711.9
30°	876.4	856.3	804.2	743.9	695.8	667.7	663.7	667.7	669.0
32.5°	817.6	802.8	752.0	690.5	644.9	620.9	619.5	623.5	628.9
35°	755.9	740.0	693.1	636.9	594.1	574.0	574.0	580.7	584.7
37.5°	689.1	673.0	630.2	583.4	547.2	528.5	531.2	537.9	539.2
40°	618.2	606.2	570.0	529.9	499.1	484.4	488.4	495.1	496.4
42.5°	551.3	540.6	511.1	475.0	452.3	441.5	446.9	454.9	457.6
45°	491.0	479.0	454.9	424.2	405.4	400.1	406.7	412.1	414.8
47.5°	436.2	425.4	405.4	377.3	363.9	361.3	368.0	370.6	373.3
50°	388.1	377.3	357.2	331.9	321.1	321.1	326.5	329.1	327.8
52.5°	341.1	331.9	313.0	291.7	284.9	284.9	289.0	290.4	293.0
55°	302.4	293.0	277.0	256.9	251.5	248.9	251.5	251.5	254.2
57.5°	266.3	258.2	243.5	224.8	218.1	215.4	214.1	212.8	215.4
60°	234.2	227.5	211.4	195.3	190.0	183.3	178.0	172.6	173.9
62.5°	204.7	198.0	183.3	167.2	161.9	152.5	145.8	139.1	141.9
65°	176.6	170.0	156.6	143.2	135.2	124.4	113.8	109.7	112.4
67.5°	151.1	145.8	132.4	119.1	112.4	100.4	89.6	89.6	91.0
70°	125.8	120.4	109.7	97.7	89.6	79.0	74.9	76.3	76.3
72.5°	103.0	99.0	88.3	77.6	69.6	62.9	62.9	64.2	65.6
75°	81.6	79.0	68.2	58.9	53.5	49.5	52.2	53.5	54.8
77.5°	62.9	58.9	50.9	44.2	40.1	41.5	44.2	45.5	46.8
80°	44.2	42.8	36.1	32.1	30.8	32.1	34.8	36.1	36.1
82.5°	28.1	26.7	22.8	21.4	21.4	22.8	25.4	25.4	25.4
85°	14.7	13.4	12.0	12.0	13.4	14.7	16.1	16.1	16.1
87.5°	5.3	4.0	5.3	5.3	6.7	6.7	6.7	6.7	6.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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

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