

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: P581961

Luminaire Tested: **HCC6W20D010BZ-HM60525935-61WWW**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P581961  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-16)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/16/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC6W20D010BZ-HM60525935-61WWW  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

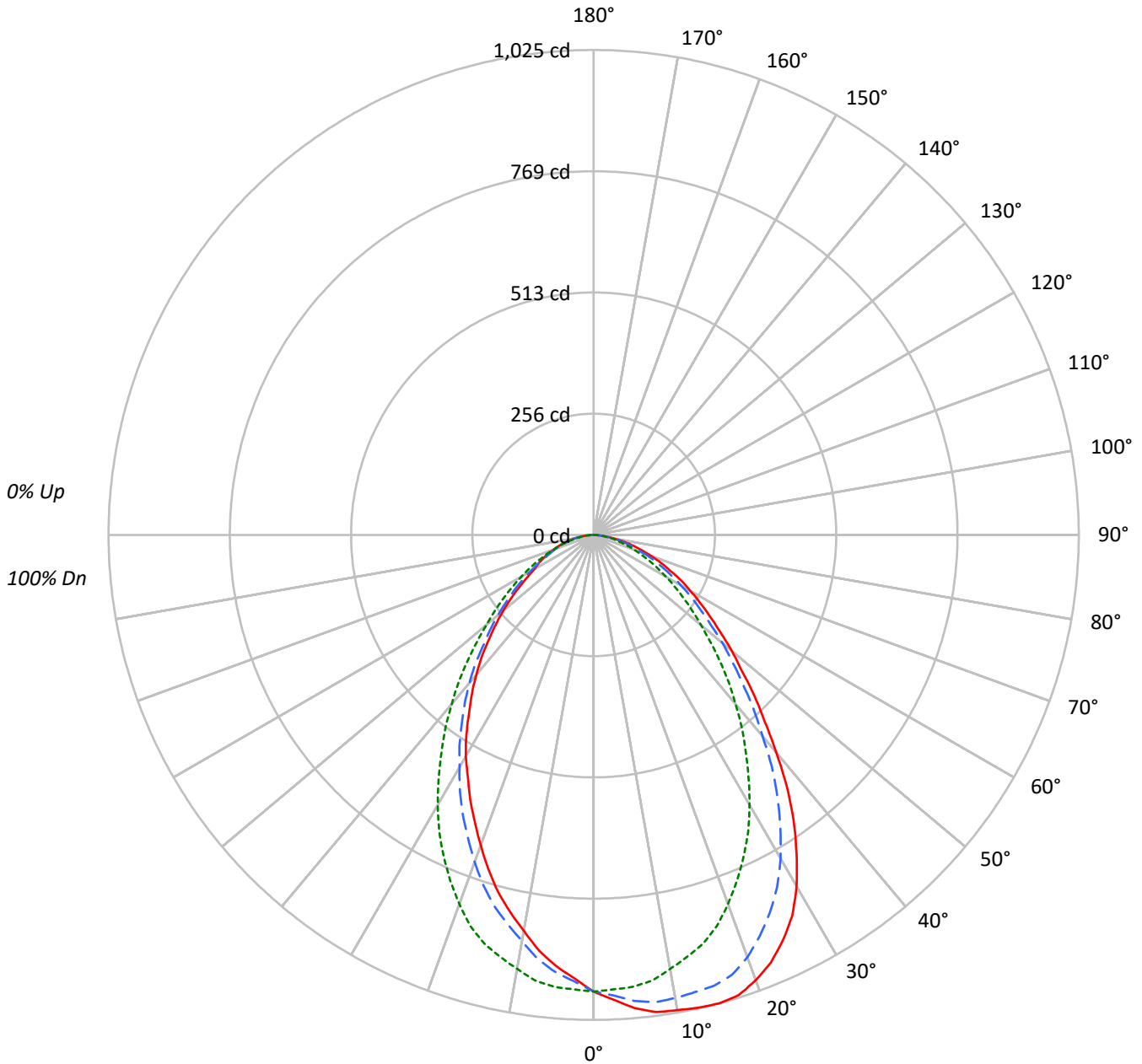
Lumens per Lamp: N/A  
Luminaire Lumens: 1798.0 lumens  
Efficiency: N/A  
Efficacy: 89.9 lumens/watt  
Spacing Criteria (0/90/45): 1.1 / 1.06 / 1.14  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

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										
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								
1	110	106	103	99	108	104	101	98	100	97	95	96	94	92	93	91	89	87								
2	102	95	89	84	99	93	88	83	90	85	81	86	83	79	83	80	78	76								
3	94	85	78	72	92	83	77	71	80	75	70	78	73	69	75	71	68	66								
4	87	76	69	63	85	75	68	62	73	67	62	71	65	61	69	64	60	58								
5	81	69	61	55	79	68	61	55	66	60	55	64	59	54	63	58	53	51								
6	75	63	55	49	73	62	55	49	61	54	49	59	53	48	57	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	39	34	57	45	38	34	44	38	33	44	38	33	43	37	33	32								

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

	0°	90°	180°
0°	52912	52912	52912
5°	55261	52757	50330
10°	56768	51847	47294
15°	58173	50727	44314
20°	58432	48427	40697
25°	57203	45341	37321
30°	54281	41690	34208
35°	49296	37470	30684
40°	42952	33370	27609
45°	37167	29205	24266
50°	32468	25151	21270
55°	28682	22097	18245
60°	25776	19362	15810
65°	23089	16863	15332
70°	20612	14361	14361
75°	17877	12115	13492
80°	14333	10260	12312
85°	9812	8995	10630



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	90.7	5.0
10°-20°	252.2	14.0
20°-30°	351.4	19.5
30°-40°	362.1	20.1
40°-50°	300.1	16.7
50°-60°	215.7	12.0
60°-70°	137.3	7.6
70°-80°	70.5	3.9
80°-90°	17.9	1.0
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°	694.3	38.6
0°-40°	1056.4	58.8
0°-60°	1572.2	87.4
0°-90°	1798.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1798.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	965	965	965	965	965	
5°	1004	989	959	928	915	96
15°	1025	986	894	812	781	289
25°	946	881	750	653	617	433
35°	737	677	560	486	458	458
45°	479	446	377	329	313	371
55°	300	275	231	205	191	270
65°	178	158	130	113	118	178
75°	84	73	57	60	64	90
85°	16	14	14	16	17	20
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°	965.2	965.2	965.2	965.2	965.2	965.2	965.2	965.2	965.2
2.5°	983.4	979.5	974.3	969.2	961.4	952.3	944.5	941.9	937.9
5°	1004.2	999.0	988.7	975.6	958.7	941.9	927.6	918.4	914.6
7.5°	1017.2	1010.7	996.4	974.3	949.7	925.0	904.1	891.2	886.0
10°	1019.8	1013.2	993.8	964.0	931.4	897.7	871.7	856.1	849.6
12.5°	1023.7	1014.6	989.9	954.8	913.3	874.3	841.8	822.3	815.9
15°	1025.0	1014.6	986.0	943.1	893.8	847.0	811.9	788.6	780.8
17.5°	1019.8	1008.1	974.3	922.4	866.5	817.1	775.5	750.8	740.5
20°	1001.6	988.7	949.7	891.2	830.1	778.1	735.3	709.3	697.6
22.5°	978.2	961.4	917.2	854.8	791.2	736.6	693.7	667.8	656.0
25°	945.7	930.2	880.8	814.5	749.6	692.4	653.4	626.2	617.0
27.5°	908.1	889.9	839.2	772.9	706.7	649.5	611.8	587.2	575.5
30°	857.5	840.5	789.8	723.6	658.6	605.4	566.4	545.7	540.4
32.5°	797.6	783.4	734.0	671.6	609.3	559.9	527.4	505.3	500.1
35°	736.6	719.7	676.9	618.4	559.9	515.7	485.8	466.3	458.5
37.5°	670.3	654.8	618.4	566.4	514.5	472.9	446.9	430.0	422.2
40°	600.2	588.5	554.7	513.1	466.3	430.0	407.9	393.6	385.8
42.5°	535.2	523.6	500.1	461.1	422.2	389.8	370.3	357.2	350.8
45°	479.4	468.9	445.6	411.8	376.7	349.4	328.7	319.6	313.0
47.5°	423.5	418.3	397.6	366.3	333.9	310.4	296.2	285.9	280.6
50°	380.7	374.1	354.6	322.2	294.9	276.7	263.8	254.6	249.4
52.5°	336.5	329.9	311.8	284.5	262.4	245.5	232.5	224.8	219.6
55°	300.1	294.9	275.4	250.7	231.2	217.0	205.3	196.1	190.9
57.5°	266.4	261.2	242.9	219.6	202.7	189.7	179.2	171.5	165.0
60°	235.1	231.2	213.0	190.9	176.6	163.7	154.5	148.1	144.2
62.5°	207.9	200.1	184.5	165.0	152.0	141.6	132.6	128.6	131.2
65°	178.0	174.0	158.5	141.6	130.0	119.5	113.1	115.6	118.2
67.5°	153.3	148.1	135.1	119.5	109.1	101.3	97.4	102.6	103.9
70°	128.6	123.4	111.7	98.7	89.6	84.4	84.4	88.4	89.6
72.5°	105.3	101.3	91.0	80.6	74.1	70.1	72.7	75.3	76.6
75°	84.4	80.6	72.7	63.7	57.2	57.2	59.7	62.3	63.7
77.5°	64.9	62.3	54.6	48.0	45.4	45.4	48.0	49.4	50.6
80°	45.4	42.8	39.0	35.1	32.5	35.1	37.7	37.7	39.0
82.5°	29.9	28.6	25.9	23.3	23.3	24.7	25.9	27.3	27.3
85°	15.6	15.6	14.3	13.0	14.3	15.6	15.6	16.9	16.9
87.5°	5.2	5.2	5.2	5.2	6.5	6.5	6.5	6.5	6.5
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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