

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: P581865

Luminaire Tested: **HCC6W20D010BZ-HM60525830-61RWWH**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P581865  
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: HCC6W20D010BZ-HM60525830-61RWWH  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

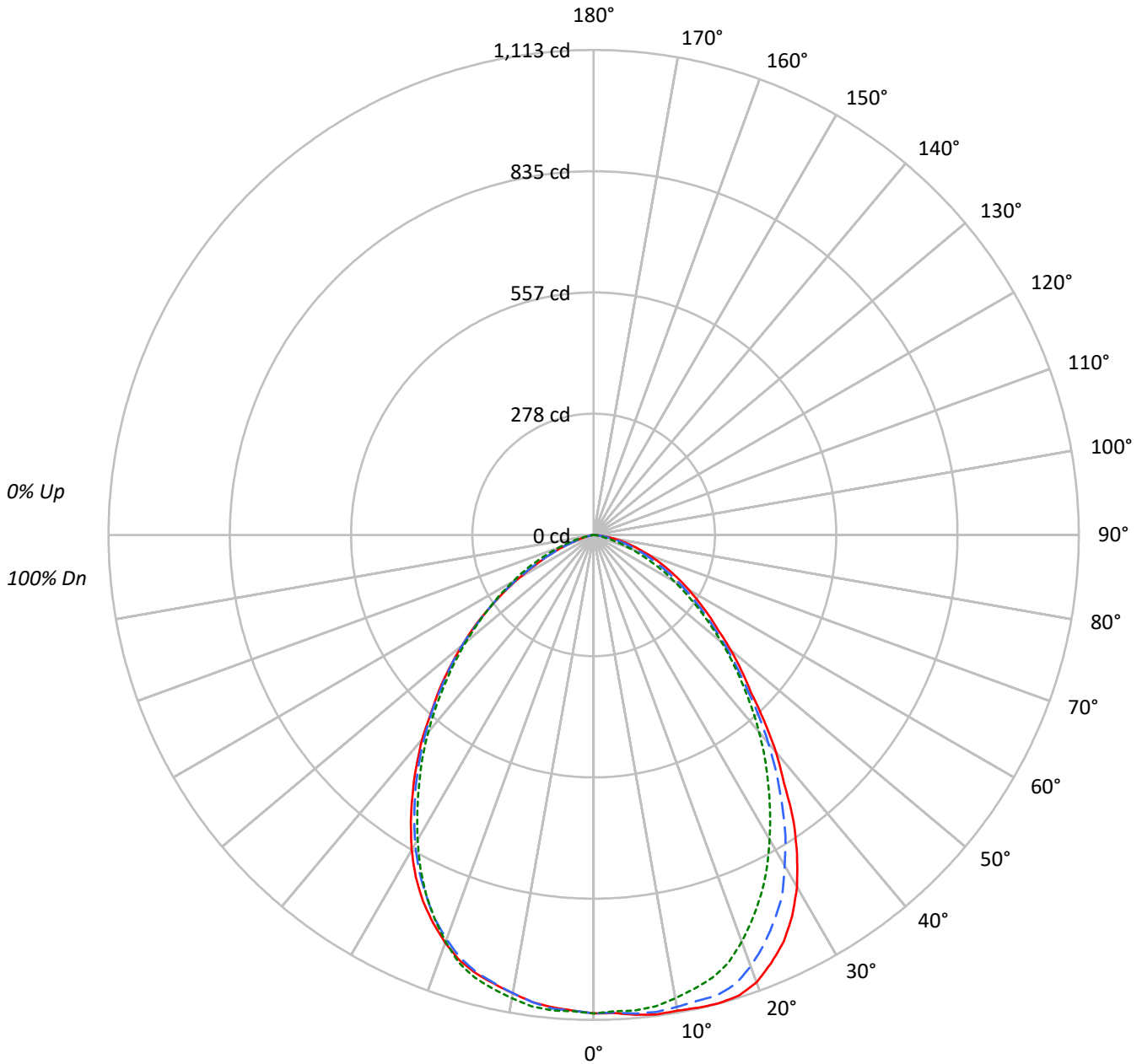
Lumens per Lamp: N/A  
Luminaire Lumens: 2152.2 lumens  
Efficiency: N/A  
Efficacy: 107.6 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.19  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

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°	60209	60209	60209
5°	60841	60285	59883
10°	61700	60097	59457
15°	63150	59722	59149
20°	63741	57948	58111
25°	62344	55031	56072
30°	59047	51122	52850
35°	53465	46726	48459
40°	46566	42236	43782
45°	39508	37384	38725
50°	34992	32664	33517
55°	30823	27927	27784
60°	27618	23518	21632
65°	24646	18861	15501
70°	21686	13624	9697
75°	18279	8239	5486
80°	14080	3662	2305
85°	8114	943	943



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	104.3	4.8
10°-20°	299.6	13.9
20°-30°	433.1	20.1
30°-40°	455.8	21.2
40°-50°	383.1	17.8
50°-60°	268.9	12.5
60°-70°	147.9	6.9
70°-80°	52.5	2.4
80°-90°	6.9	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°	837.0	38.9
0°-40°	1292.8	60.1
0°-60°	1944.9	90.4
0°-90°	2152.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2152.2	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1098	1098	1098	1098	1098	
5°	1106	1103	1096	1091	1088	106
15°	1113	1094	1052	1039	1042	314
25°	1031	979	910	911	927	472
35°	799	753	698	712	724	495
45°	510	495	482	494	500	400
55°	322	305	292	292	291	290
65°	190	170	145	120	120	189
75°	86	69	39	26	26	93
85°	13	7	2	2	2	18
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°	1098.3	1098.3	1098.3	1098.3	1098.3	1098.3	1098.3	1098.3	1098.3
2.5°	1098.3	1098.3	1096.9	1096.9	1094.0	1094.0	1092.6	1092.6	1092.6
5°	1105.6	1105.6	1102.6	1098.3	1095.5	1091.2	1091.2	1089.7	1088.2
7.5°	1109.9	1108.4	1104.1	1098.3	1091.2	1083.9	1081.1	1082.5	1081.1
10°	1108.4	1105.6	1099.8	1088.2	1079.6	1069.6	1068.1	1066.7	1068.1
12.5°	1111.2	1106.9	1095.5	1081.1	1066.7	1055.2	1053.7	1053.7	1055.2
15°	1112.7	1108.4	1094.0	1072.4	1052.3	1040.8	1039.3	1040.8	1042.2
17.5°	1108.4	1102.6	1081.1	1052.3	1029.2	1017.8	1017.8	1020.6	1023.4
20°	1092.6	1083.9	1053.7	1019.1	993.3	984.6	987.5	993.3	996.1
22.5°	1063.8	1053.7	1019.1	980.3	953.0	945.7	953.0	960.1	963.0
25°	1030.7	1019.1	978.9	938.6	909.8	901.1	911.2	922.7	927.0
27.5°	986.0	973.1	935.6	889.6	860.9	856.5	868.0	881.0	883.9
30°	932.8	918.4	876.6	833.4	807.6	806.1	819.0	830.6	834.9
32.5°	868.0	855.1	819.0	775.9	752.9	752.9	765.8	775.9	780.2
35°	798.9	784.5	752.9	716.8	698.2	699.6	712.5	719.8	724.1
37.5°	716.8	712.5	688.1	657.8	644.9	647.7	657.8	663.6	667.9
40°	650.7	639.1	623.3	598.8	590.2	593.1	603.1	608.9	611.8
42.5°	578.6	571.5	558.6	541.2	535.5	539.8	548.5	552.8	551.3
45°	509.6	508.2	495.2	485.2	482.2	488.0	493.8	498.1	499.5
47.5°	459.2	453.4	441.9	434.7	431.9	437.6	443.3	446.3	446.3
50°	410.3	404.5	393.0	385.8	383.0	388.6	393.0	395.9	393.0
52.5°	361.3	355.5	345.5	336.8	335.4	338.3	339.7	341.1	344.1
55°	322.5	316.7	305.2	295.1	292.2	293.7	292.2	292.2	290.7
57.5°	285.1	279.3	267.7	256.3	251.9	250.5	246.2	244.7	243.3
60°	251.9	244.7	233.2	220.3	214.5	208.7	201.6	197.3	197.3
62.5°	220.3	213.0	200.1	188.5	179.9	169.8	158.4	152.6	152.6
65°	190.0	184.2	169.8	156.9	145.4	132.4	119.5	116.6	119.5
67.5°	161.2	155.4	141.1	128.1	113.8	97.9	86.3	86.3	89.3
70°	135.3	129.5	116.6	100.7	85.0	69.1	60.5	60.5	60.5
72.5°	110.8	105.0	90.6	76.3	60.5	44.6	40.3	41.7	40.3
75°	86.3	82.0	69.1	53.3	38.9	27.3	25.9	24.5	25.9
77.5°	64.8	60.5	48.9	34.6	21.6	15.9	14.4	14.4	14.4
80°	44.6	40.3	31.7	20.2	11.6	7.3	7.3	7.3	7.3
82.5°	27.3	23.0	17.2	10.1	4.3	4.3	4.3	4.3	4.3
85°	12.9	10.1	7.3	2.8	1.5	1.5	1.5	1.5	1.5
87.5°	2.8	2.8	1.5	1.5	0.0	1.5	1.5	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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