

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: P581953

Luminaire Tested: **HCC6S20D010BZ-HM60525935-61RWWC**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P581953  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-14)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/16/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC6S20D010BZ-HM60525935-61RWWC  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, SPECULAR TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

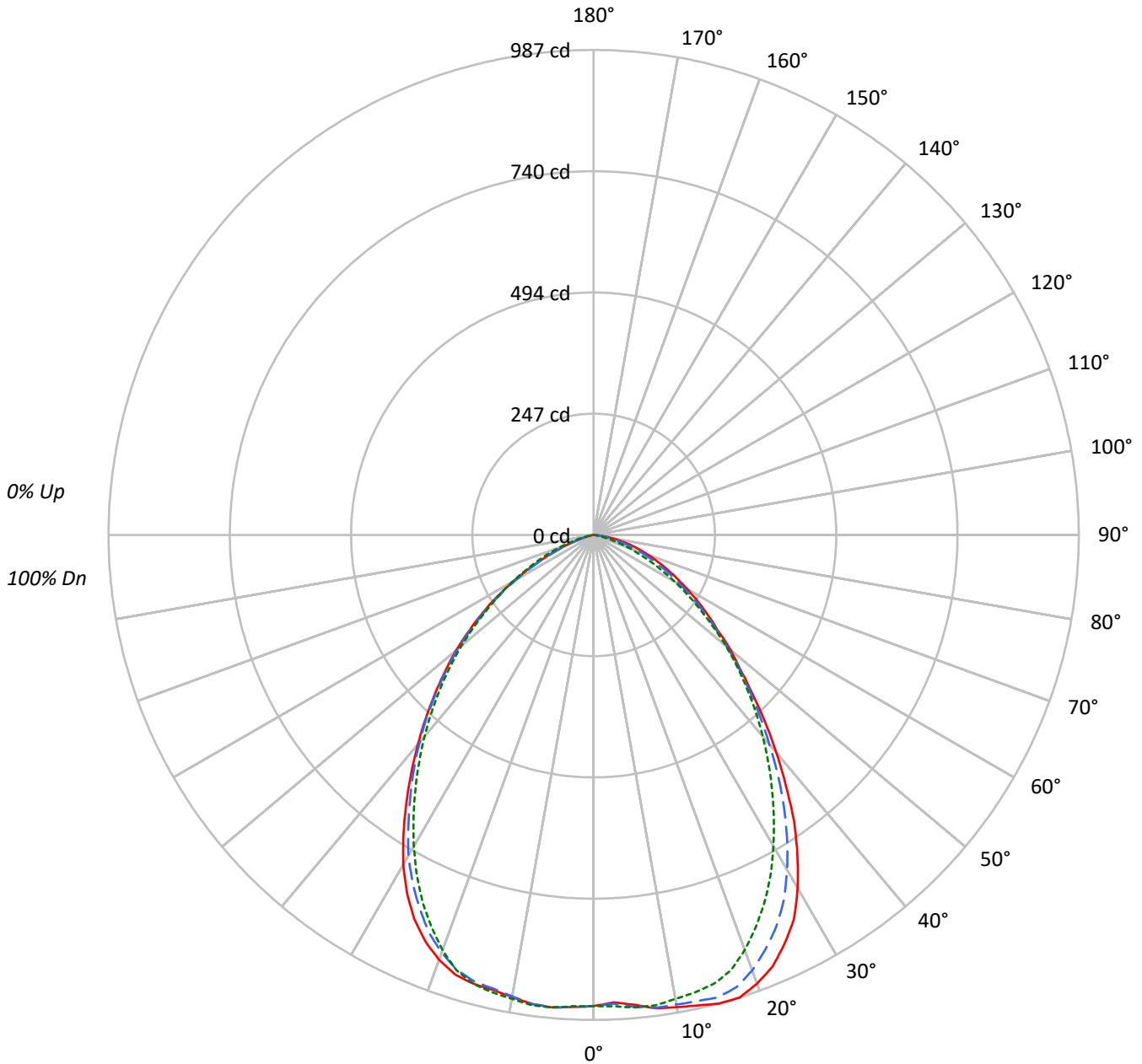
Lumens per Lamp: N/A  
Luminaire Lumens: 1935.7 lumens  
Efficiency: N/A  
Efficacy: 96.8 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.15 / 1.2  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

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	94	92	90	88								
2	103	96	90	86	100	94	89	85	91	86	83	88	84	81	85	82	79	77								
3	95	86	79	74	93	85	78	73	82	76	72	79	75	71	77	73	69	68								
4	88	78	70	64	86	76	69	64	74	68	63	72	67	62	70	65	61	60								
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	62	55	50	60	54	49	58	53	49	47								
7	71	59	51	45	69	58	50	45	56	50	45	55	49	45	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°	52567	52567	52567
5°	52834	53120	53120
10°	54313	53378	53155
15°	56039	53678	53678
20°	56693	52446	53665
25°	55558	49823	52182
30°	52546	46305	49014
35°	47556	42342	44430
40°	41378	38300	39796
45°	35353	34143	35353
50°	31027	29918	31138
55°	27067	25213	26207
60°	23924	20941	20656
65°	21234	16513	14152
70°	18737	11653	8543
75°	15949	6608	4130
80°	11902	2052	1231
85°	6542	755	755



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	92.0	4.8
10°-20°	269.1	13.9
20°-30°	393.0	20.3
30°-40°	412.2	21.3
40°-50°	347.2	17.9
50°-60°	243.3	12.6
60°-70°	130.4	6.7
70°-80°	43.7	2.3
80°-90°	4.7	0.2
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°	754.1	39.0
0°-40°	1166.2	60.2
0°-60°	1756.8	90.8
0°-90°	1935.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1935.7	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	959	959	959	959	959	
5°	960	964	965	965	965	92
15°	987	974	946	941	946	279
25°	918	880	824	838	863	421
35°	711	674	633	651	664	441
45°	456	448	440	452	456	355
55°	283	274	264	269	274	255
65°	164	149	127	105	109	163
75°	75	58	31	20	20	80
85°	10	5	1	1	1	14
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°	958.9	958.9	958.9	958.9	958.9	958.9	958.9	958.9	958.9
2.5°	952.3	952.3	954.9	957.5	960.1	960.1	961.4	962.7	961.4
5°	960.1	960.1	964.0	965.3	965.3	964.0	965.3	965.3	965.3
7.5°	971.8	969.2	970.5	967.9	965.3	964.0	962.7	962.7	962.7
10°	975.7	973.1	970.5	965.3	958.9	954.9	953.6	954.9	954.9
12.5°	980.8	978.3	971.8	961.4	953.6	947.1	945.8	948.4	948.4
15°	987.4	984.8	974.4	957.5	945.8	939.4	940.6	943.2	945.8
17.5°	987.4	982.2	965.3	943.2	928.9	922.4	927.6	934.2	938.0
20°	971.8	966.6	943.2	915.9	899.0	895.2	904.2	915.9	919.9
22.5°	951.0	940.6	913.3	880.9	862.7	862.7	875.7	890.0	895.2
25°	918.5	910.7	879.5	841.9	823.7	822.4	838.0	857.5	862.7
27.5°	882.2	871.7	838.0	799.0	779.5	780.9	797.7	817.2	822.4
30°	830.1	817.2	787.3	749.6	731.5	736.7	753.6	767.8	774.3
32.5°	771.7	760.0	732.7	697.7	682.1	687.3	701.6	714.6	719.8
35°	710.6	697.7	674.2	643.1	632.7	637.9	650.9	661.3	663.9
37.5°	641.8	632.7	615.8	591.1	583.4	589.8	600.3	606.7	609.3
40°	578.2	570.4	556.1	537.8	535.2	540.4	550.9	554.7	556.1
42.5°	515.7	509.3	500.2	487.2	487.2	492.4	501.5	504.1	505.4
45°	456.0	452.1	448.2	437.8	440.4	447.0	452.1	456.0	456.0
47.5°	404.0	405.4	400.2	392.4	395.0	401.4	405.4	409.2	409.2
50°	363.8	359.8	354.6	346.9	350.8	356.0	361.2	363.8	365.1
52.5°	317.0	315.7	311.8	302.7	305.3	307.9	313.2	317.0	318.3
55°	283.2	279.3	274.2	263.8	263.8	266.4	269.0	271.6	274.2
57.5°	250.7	246.9	239.1	227.4	226.0	226.0	224.8	227.4	231.2
60°	218.2	217.0	205.3	194.9	191.0	187.1	181.8	183.2	188.4
62.5°	189.7	187.1	176.6	163.7	155.9	149.4	142.9	141.6	146.8
65°	163.7	161.1	149.4	136.4	127.3	115.7	105.3	105.3	109.1
67.5°	140.3	135.2	124.7	110.5	98.7	84.4	74.1	76.7	78.0
70°	116.9	113.1	101.3	87.0	72.7	58.5	52.0	53.3	53.3
72.5°	96.2	91.0	79.2	64.9	50.6	37.7	35.1	33.8	33.8
75°	75.3	70.1	58.5	44.2	31.2	22.1	19.5	19.5	19.5
77.5°	54.6	50.6	40.2	27.3	16.9	10.4	9.1	7.8	7.8
80°	37.7	33.8	24.7	14.3	6.5	3.9	3.9	3.9	3.9
82.5°	22.1	18.2	11.7	6.5	2.6	1.2	1.2	1.2	1.2
85°	10.4	7.8	5.2	2.6	1.2	1.2	1.2	1.2	1.2
87.5°	1.2	1.2	1.2	0.0	0.0	0.0	0.0	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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— 0°-180°    - - 45°-225°    - - - - 90°-270°

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