

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: P582170

Luminaire Tested: **HCC6S30D010BZ-HM63040835-61RWWC**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P582170  
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: HCC6S30D010BZ-HM63040835-61RWWC  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, SPECULAR TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

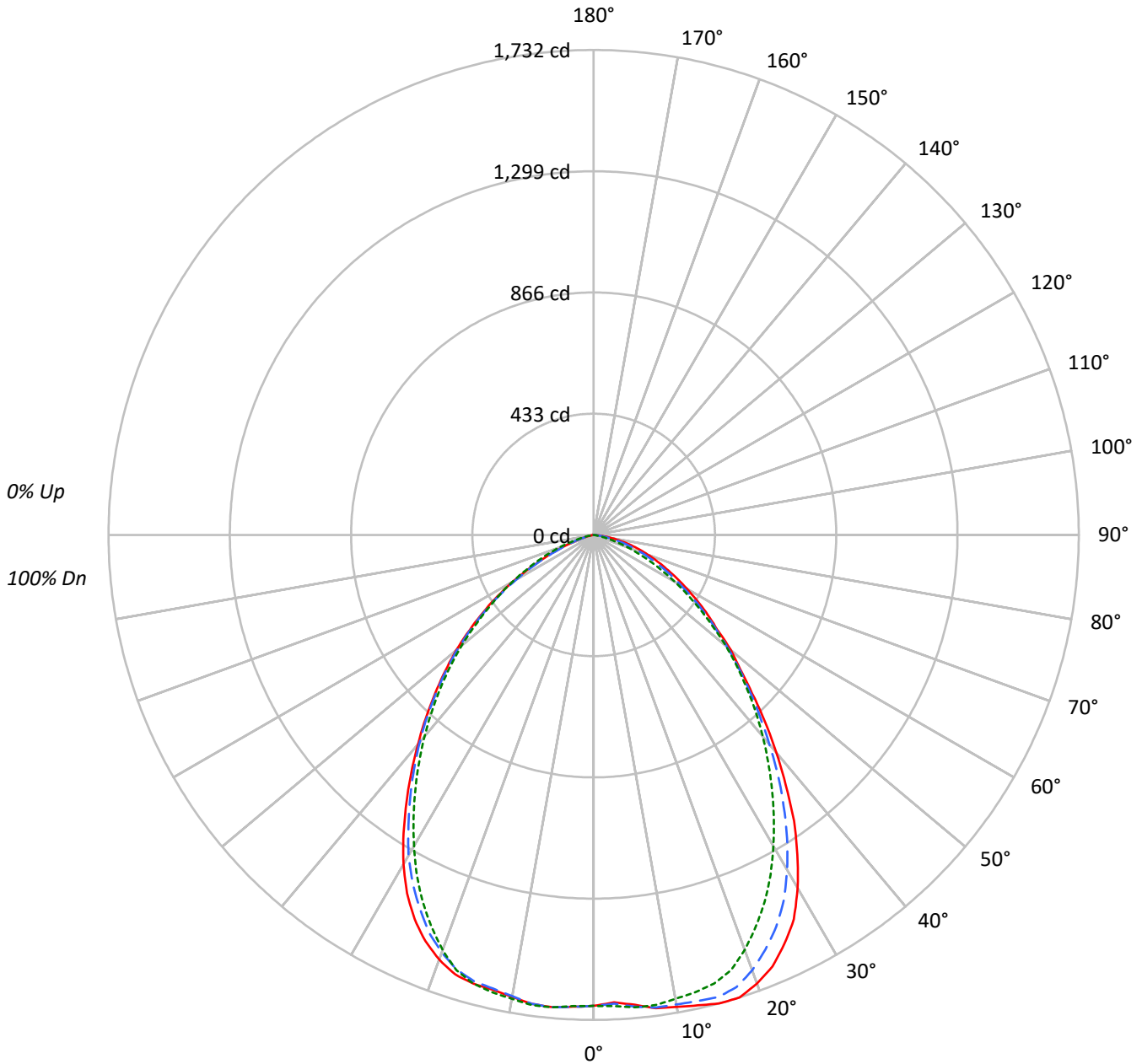
Lumens per Lamp: N/A  
Luminaire Lumens: 3395.9 lumens  
Efficiency: N/A  
Efficacy: 121.3 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.15 / 1.2  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 28  
Input Voltage (V): NR  
Input Current (Ain): 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°	92213	92213	92213
5°	92686	93193	93193
10°	95283	93636	93257
15°	98315	94166	94166
20°	99461	92011	94141
25°	97475	87404	91548
30°	92191	81228	85988
35°	83440	74291	77945
40°	72579	67204	69817
45°	62022	59898	62022
50°	54420	52484	54625
55°	47492	44213	45972
60°	41981	36740	36236
65°	37241	28978	24828
70°	32874	20452	14987
75°	28001	11586	7244
80°	20868	3599	2178
85°	11448	1447	1447

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	161.4	4.8
10°-20°	472.1	13.9
20°-30°	689.5	20.3
30°-40°	723.1	21.3
40°-50°	609.2	17.9
50°-60°	426.8	12.6
60°-70°	228.8	6.7
70°-80°	76.7	2.3
80°-90°	8.4	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°	1322.9	39.0
0°-40°	2046.0	60.2
0°-60°	3082.0	90.8
0°-90°	3395.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3395.9	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1682	1682	1682	1682	1682	
5°	1684	1691	1694	1694	1694	162
15°	1732	1709	1659	1650	1659	489
25°	1612	1543	1445	1470	1514	738
35°	1247	1183	1110	1142	1165	774
45°	800	786	773	793	800	623
55°	497	481	463	472	481	447
65°	287	262	223	185	191	287
75°	132	103	55	34	34	140
85°	18	9	2	2	2	25
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°	1682.1	1682.1	1682.1	1682.1	1682.1	1682.1	1682.1	1682.1	1682.1
2.5°	1670.7	1670.7	1675.3	1679.8	1684.3	1684.3	1686.6	1689.0	1686.6
5°	1684.3	1684.3	1691.2	1693.5	1693.5	1691.2	1693.5	1693.5	1693.5
7.5°	1704.9	1700.3	1702.6	1698.0	1693.5	1691.2	1689.0	1689.0	1689.0
10°	1711.7	1707.2	1702.6	1693.5	1682.1	1675.3	1672.9	1675.3	1675.3
12.5°	1720.8	1716.3	1704.9	1686.6	1672.9	1661.6	1659.2	1663.9	1663.9
15°	1732.3	1727.6	1709.4	1679.8	1659.2	1648.0	1650.2	1654.7	1659.2
17.5°	1732.3	1723.1	1693.5	1654.7	1629.6	1618.2	1627.4	1638.8	1645.6
20°	1704.9	1695.8	1654.7	1606.8	1577.2	1570.4	1586.4	1606.8	1613.7
22.5°	1668.4	1650.2	1602.3	1545.3	1513.5	1513.5	1536.2	1561.3	1570.4
25°	1611.5	1597.8	1543.1	1477.0	1445.0	1442.7	1470.1	1504.3	1513.5
27.5°	1547.6	1529.4	1470.1	1401.7	1367.6	1369.8	1399.5	1433.7	1442.7
30°	1456.4	1433.7	1381.3	1315.2	1283.2	1292.3	1321.9	1347.0	1358.4
32.5°	1353.9	1333.3	1285.5	1224.0	1196.6	1205.8	1230.7	1253.6	1262.7
35°	1246.8	1224.0	1182.9	1128.2	1110.1	1119.1	1141.9	1160.1	1164.7
37.5°	1126.0	1110.1	1080.3	1037.0	1023.4	1034.8	1053.0	1064.4	1068.9
40°	1014.2	1000.5	975.6	943.6	939.1	948.1	966.4	973.2	975.6
42.5°	904.8	893.4	877.5	854.8	854.8	863.8	879.7	884.4	886.6
45°	800.0	793.2	786.3	768.1	772.6	784.0	793.2	800.0	800.0
47.5°	708.9	711.1	702.0	688.3	692.9	704.2	711.1	717.9	717.9
50°	638.1	631.4	622.2	608.5	615.4	624.5	633.6	638.1	640.5
52.5°	556.1	553.8	547.1	531.0	535.6	540.2	549.3	556.1	558.5
55°	496.9	490.0	481.0	462.6	462.6	467.3	471.8	476.3	481.0
57.5°	439.9	433.0	419.4	398.9	396.5	396.5	394.3	398.9	405.7
60°	382.9	380.6	360.1	341.8	335.1	328.2	319.1	321.4	330.5
62.5°	332.8	328.2	310.0	287.1	273.5	262.1	250.8	248.4	257.5
65°	287.1	282.6	262.1	239.3	223.4	202.8	184.7	184.7	191.4
67.5°	246.1	237.1	218.8	193.7	173.2	148.1	130.0	134.5	136.7
70°	205.1	198.3	177.8	152.7	127.6	102.6	91.2	93.5	93.5
72.5°	168.7	159.6	139.0	113.9	88.9	66.1	61.6	59.2	59.2
75°	132.2	123.1	102.6	77.5	54.7	38.8	34.2	34.2	34.2
77.5°	95.7	88.9	70.6	47.9	29.6	18.2	15.9	13.7	13.7
80°	66.1	59.2	43.3	25.1	11.4	6.9	6.9	6.9	6.9
82.5°	38.8	31.9	20.6	11.4	4.5	2.3	2.3	2.3	2.3
85°	18.2	13.7	9.2	4.5	2.3	2.3	2.3	2.3	2.3
87.5°	2.3	2.3	2.3	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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