

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: P582387

Luminaire Tested: **HCC6S35D010BZ-HM63040935-61RWWH**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P582387  
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: HCC6S35D010BZ-HM63040935-61RWWH  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

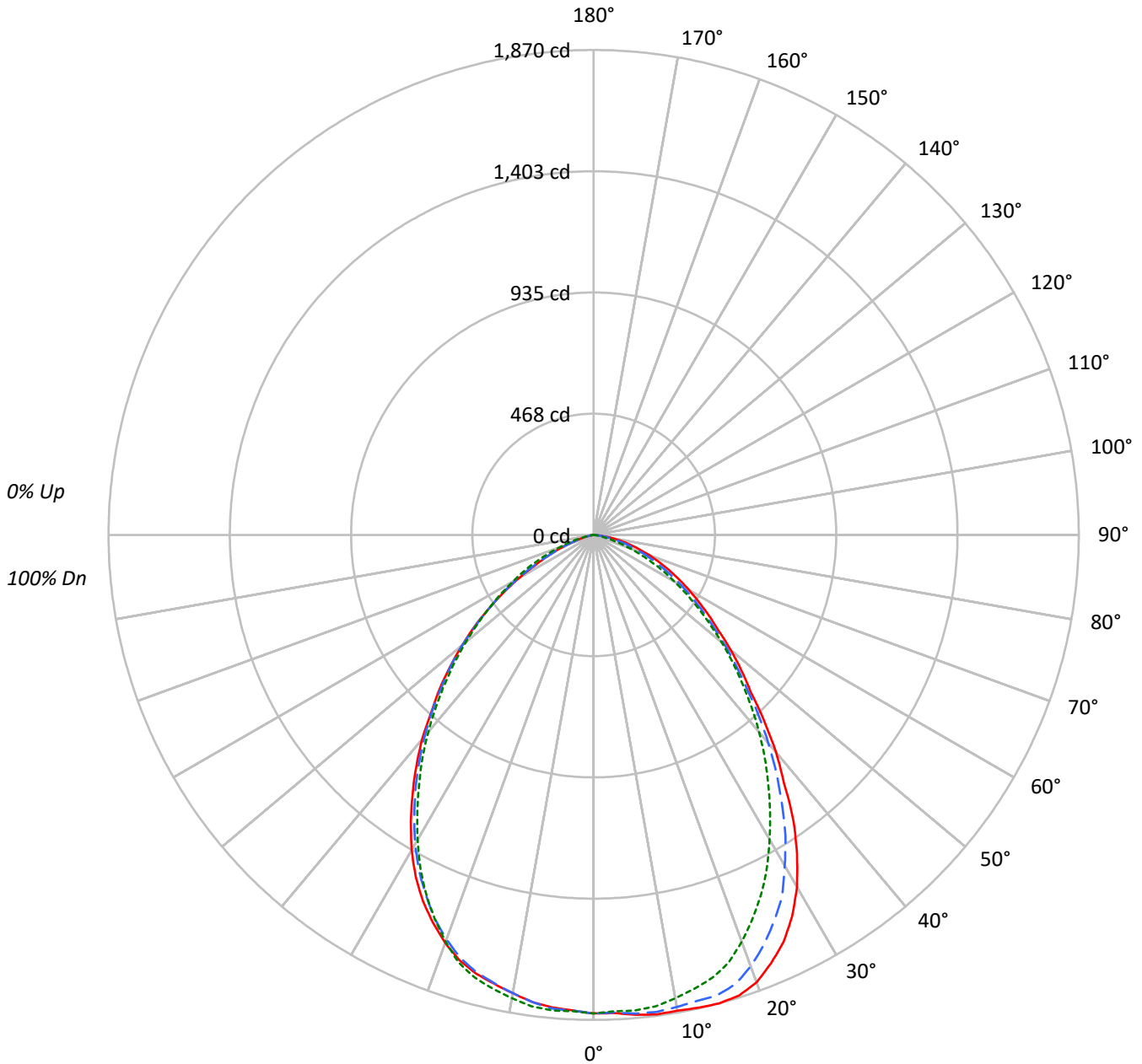
Lumens per Lamp: N/A  
Luminaire Lumens: 3616.1 lumens  
Efficiency: N/A  
Efficacy: 107.3 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.19  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 33.7  
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				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				100
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88				88
2	103	96	90	85	100	94	89	84	91	86	83	87	84	81	85	82	79	77				77
3	95	86	79	74	93	84	78	73	82	76	72	79	74	70	77	73	69	67				67
4	88	78	70	64	86	76	69	64	74	68	63	72	66	62	70	65	61	59				59
5	82	70	62	57	80	69	62	56	67	61	56	65	60	55	64	59	55	53				53
6	76	64	56	50	74	63	56	50	61	55	50	60	54	49	58	53	49	47				47
7	71	59	51	45	69	58	50	45	56	50	45	55	49	44	54	48	44	42				42
8	66	54	46	41	65	53	46	41	52	45	41	51	45	40	50	44	40	38				38
9	62	50	42	37	61	49	42	37	48	42	37	47	41	37	46	41	37	35				35
10	59	46	39	34	57	46	39	34	45	38	34	44	38	34	43	38	34	32				32

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

	0°	90°	180°
0°	101165	101165	101165
5°	102217	101287	100622
10°	103667	100978	99898
15°	106113	100341	99382
20°	107092	97355	97641
25°	104746	92455	94215
30°	99211	85893	88805
35°	89838	78507	81419
40°	78232	70962	73559
45°	66379	62813	65069
50°	58787	54872	56314
55°	51774	46928	46698
60°	46411	39514	36324
65°	41418	31690	26034
70°	36432	22872	16269
75°	30755	13852	9214
80°	23646	6125	3820
85°	13712	1572	1572



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	175.2	4.8
10°-20°	503.5	13.9
20°-30°	727.8	20.1
30°-40°	765.8	21.2
40°-50°	643.7	17.8
50°-60°	451.8	12.5
60°-70°	248.5	6.9
70°-80°	88.2	2.4
80°-90°	11.6	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°	1406.4	38.9
0°-40°	2172.2	60.1
0°-60°	3267.7	90.4
0°-90°	3616.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3616.1	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1845	1845	1845	1845	1845	
5°	1858	1853	1841	1833	1828	177
15°	1870	1838	1768	1746	1751	528
25°	1732	1645	1528	1531	1558	792
35°	1342	1265	1173	1197	1217	832
45°	856	832	810	830	839	672
55°	542	513	491	491	489	488
65°	319	285	244	201	201	318
75°	145	116	65	44	44	156
85°	22	12	2	2	2	30
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°	1845.4	1845.4	1845.4	1845.4	1845.4	1845.4	1845.4	1845.4	1845.4
2.5°	1845.4	1845.4	1843.0	1843.0	1838.1	1838.1	1835.7	1835.7	1835.7
5°	1857.5	1857.5	1852.7	1845.4	1840.6	1833.4	1833.4	1830.9	1828.5
7.5°	1864.7	1862.3	1855.1	1845.4	1833.4	1821.2	1816.4	1818.8	1816.4
10°	1862.3	1857.5	1847.8	1828.5	1814.0	1797.1	1794.6	1792.2	1794.6
12.5°	1867.2	1860.0	1840.6	1816.4	1792.2	1772.9	1770.5	1770.5	1772.9
15°	1869.7	1862.3	1838.1	1801.8	1768.0	1748.6	1746.3	1748.6	1751.1
17.5°	1862.3	1852.7	1816.4	1768.0	1729.4	1710.0	1710.0	1714.8	1719.7
20°	1835.7	1821.2	1770.5	1712.3	1668.8	1654.3	1659.2	1668.8	1673.7
22.5°	1787.4	1770.5	1712.3	1647.1	1601.1	1589.1	1601.1	1613.3	1618.0
25°	1731.7	1712.3	1644.7	1577.0	1528.5	1514.1	1531.0	1550.4	1557.6
27.5°	1656.8	1635.0	1572.1	1494.7	1446.4	1439.1	1458.4	1480.2	1485.0
30°	1567.3	1543.1	1473.0	1400.4	1356.9	1354.4	1376.2	1395.5	1402.9
32.5°	1458.4	1436.7	1376.2	1303.7	1264.9	1264.9	1286.7	1303.7	1310.9
35°	1342.4	1318.1	1264.9	1204.5	1173.1	1175.4	1197.2	1209.4	1216.6
37.5°	1204.5	1197.2	1156.1	1105.3	1083.6	1088.3	1105.3	1115.0	1122.3
40°	1093.2	1073.9	1047.3	1006.2	991.6	996.5	1013.4	1023.1	1027.9
42.5°	972.3	960.2	938.4	909.4	899.8	907.0	921.5	928.8	926.4
45°	856.2	853.8	832.0	815.0	810.2	819.9	829.6	836.9	839.3
47.5°	771.5	761.8	742.6	730.4	725.6	735.2	744.9	749.8	749.8
50°	689.3	679.7	660.3	648.2	643.4	653.1	660.3	665.1	660.3
52.5°	607.1	597.4	580.5	566.0	563.5	568.3	570.8	573.2	578.0
55°	541.7	532.2	512.8	495.9	491.0	493.4	491.0	491.0	488.6
57.5°	478.9	469.3	449.9	430.5	423.3	420.8	413.6	411.1	408.8
60°	423.3	411.1	391.8	370.1	360.4	350.7	338.7	331.3	331.3
62.5°	370.1	357.9	336.2	316.8	302.4	285.4	266.1	256.4	256.4
65°	319.3	309.6	285.4	263.6	244.3	222.5	200.7	195.9	200.7
67.5°	270.9	261.2	237.0	215.3	191.0	164.4	145.2	145.2	150.0
70°	227.3	217.6	195.9	169.3	142.7	116.1	101.5	101.5	101.5
72.5°	186.3	176.6	152.4	128.1	101.5	74.9	67.7	70.1	67.7
75°	145.2	137.8	116.1	89.5	65.4	46.0	43.5	41.1	43.5
77.5°	108.9	101.5	82.3	58.0	36.3	26.6	24.2	24.2	24.2
80°	74.9	67.7	53.2	33.8	19.4	12.1	12.1	12.1	12.1
82.5°	46.0	38.7	29.1	16.9	7.2	7.2	7.2	7.2	7.2
85°	21.8	16.9	12.1	4.8	2.5	2.5	2.5	2.5	2.5
87.5°	4.8	4.8	2.5	2.5	0.0	2.5	2.5	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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