

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: P582314

Luminaire Tested: **HC635D010-HM63040835-61RWWC**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P582314  
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: HC635D010-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  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4034.8 lumens  
Efficiency: N/A  
Efficacy: 119.7 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

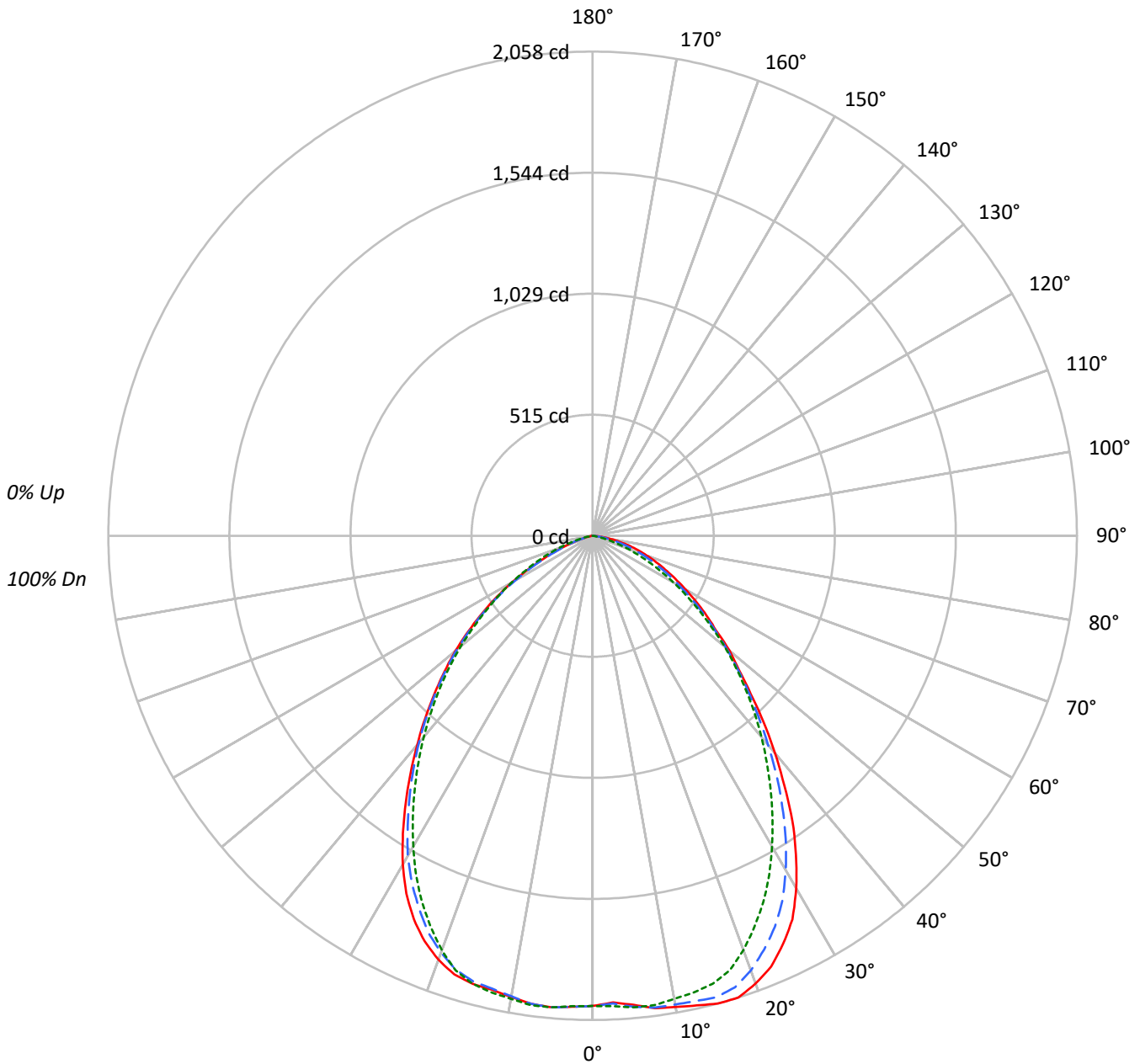
Input Watts (W): 33.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	109558	109558	109558
5°	110131	110720	110720
10°	113208	111248	110797
15°	116805	111885	111885
20°	118170	109326	111852
25°	115809	103851	108762
30°	109536	96509	102168
35°	99133	88258	92608
40°	86233	79850	82948
45°	73690	71178	73690
50°	64663	62352	64902
55°	56428	52548	54612
60°	49875	43648	43056
65°	44259	34427	29497
70°	39061	24299	17791
75°	33275	13768	8599
80°	24782	4262	2589
85°	13649	1698	1698



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	191.7	4.8
10°-20°	560.9	13.9
20°-30°	819.2	20.3
30°-40°	859.1	21.3
40°-50°	723.8	17.9
50°-60°	507.1	12.6
60°-70°	271.9	6.7
70°-80°	91.2	2.3
80°-90°	9.9	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°	1571.8	39.0
0°-40°	2430.9	60.2
0°-60°	3661.8	90.8
0°-90°	4034.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4034.8	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1998	1998	1998	1998	1998	
5°	2001	2009	2012	2012	2012	192
15°	2058	2031	1971	1961	1971	581
25°	1915	1833	1717	1747	1798	877
35°	1481	1405	1319	1357	1384	919
45°	950	934	918	942	950	740
55°	590	571	550	560	571	531
65°	341	312	265	219	227	341
75°	157	122	65	41	41	167
85°	22	11	3	3	3	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°	1998.5	1998.5	1998.5	1998.5	1998.5	1998.5	1998.5	1998.5	1998.5
2.5°	1985.0	1985.0	1990.4	1995.8	2001.3	2001.3	2004.0	2006.7	2004.0
5°	2001.3	2001.3	2009.3	2012.0	2012.0	2009.3	2012.0	2012.0	2012.0
7.5°	2025.6	2020.2	2022.9	2017.5	2012.0	2009.3	2006.7	2006.7	2006.7
10°	2033.7	2028.4	2022.9	2012.0	1998.5	1990.4	1987.8	1990.4	1990.4
12.5°	2044.6	2039.1	2025.6	2004.0	1987.8	1974.2	1971.4	1976.9	1976.9
15°	2058.1	2052.6	2031.0	1995.8	1971.4	1957.9	1960.6	1966.0	1971.4
17.5°	2058.1	2047.3	2012.0	1966.0	1936.3	1922.7	1933.5	1947.0	1955.2
20°	2025.6	2014.8	1966.0	1909.2	1874.0	1865.8	1884.8	1909.2	1917.3
22.5°	1982.3	1960.6	1903.7	1836.0	1798.1	1798.1	1825.2	1854.9	1865.8
25°	1914.6	1898.4	1833.4	1754.8	1716.9	1714.2	1746.6	1787.3	1798.1
27.5°	1838.7	1817.1	1746.6	1665.4	1624.8	1627.5	1662.7	1703.4	1714.2
30°	1730.4	1703.4	1641.0	1562.5	1524.6	1535.4	1570.7	1600.4	1614.0
32.5°	1608.6	1584.2	1527.4	1454.2	1421.8	1432.6	1462.4	1489.4	1500.3
35°	1481.3	1454.2	1405.4	1340.5	1318.8	1329.7	1356.8	1378.3	1383.8
37.5°	1337.7	1318.8	1283.6	1232.1	1215.9	1229.4	1251.1	1264.7	1270.0
40°	1205.0	1188.8	1159.1	1121.1	1115.8	1126.5	1148.2	1156.4	1159.1
42.5°	1075.0	1061.5	1042.6	1015.5	1015.5	1026.4	1045.3	1050.8	1053.5
45°	950.5	942.4	934.3	912.6	918.1	931.6	942.4	950.5	950.5
47.5°	842.2	844.9	834.1	817.8	823.2	836.7	844.9	853.1	853.1
50°	758.2	750.1	739.3	723.1	731.1	742.0	752.8	758.2	761.0
52.5°	660.8	658.1	649.9	631.0	636.4	641.8	652.6	660.8	663.4
55°	590.4	582.2	571.4	549.8	549.8	555.1	560.5	566.0	571.4
57.5°	522.7	514.5	498.3	473.9	471.2	471.2	468.4	473.9	482.1
60°	454.9	452.2	427.8	406.2	398.1	390.0	379.2	381.8	392.7
62.5°	395.4	390.0	368.3	341.2	325.0	311.5	297.9	295.1	306.0
65°	341.2	335.7	311.5	284.4	265.4	241.0	219.4	219.4	227.4
67.5°	292.5	281.6	260.0	230.1	205.9	176.0	154.4	159.8	162.4
70°	243.7	235.6	211.2	181.5	151.6	121.8	108.3	111.0	111.0
72.5°	200.4	189.5	165.2	135.4	105.6	78.5	73.2	70.4	70.4
75°	157.1	146.2	121.8	92.1	65.0	46.0	40.6	40.6	40.6
77.5°	113.8	105.6	83.9	56.8	35.2	21.7	18.9	16.2	16.2
80°	78.5	70.4	51.5	29.8	13.5	8.2	8.2	8.2	8.2
82.5°	46.0	37.9	24.4	13.5	5.4	2.7	2.7	2.7	2.7
85°	21.7	16.2	10.9	5.4	2.7	2.7	2.7	2.7	2.7
87.5°	2.7	2.7	2.7	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°







(END OF REPORT)