

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: P583215

Luminaire Tested: **HC660D010-HM64560927-61RWWH**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P583215  
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: HC660D010-HM64560927-61RWWH  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4383.5 lumens  
Efficiency: N/A  
Efficacy: 79.7 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

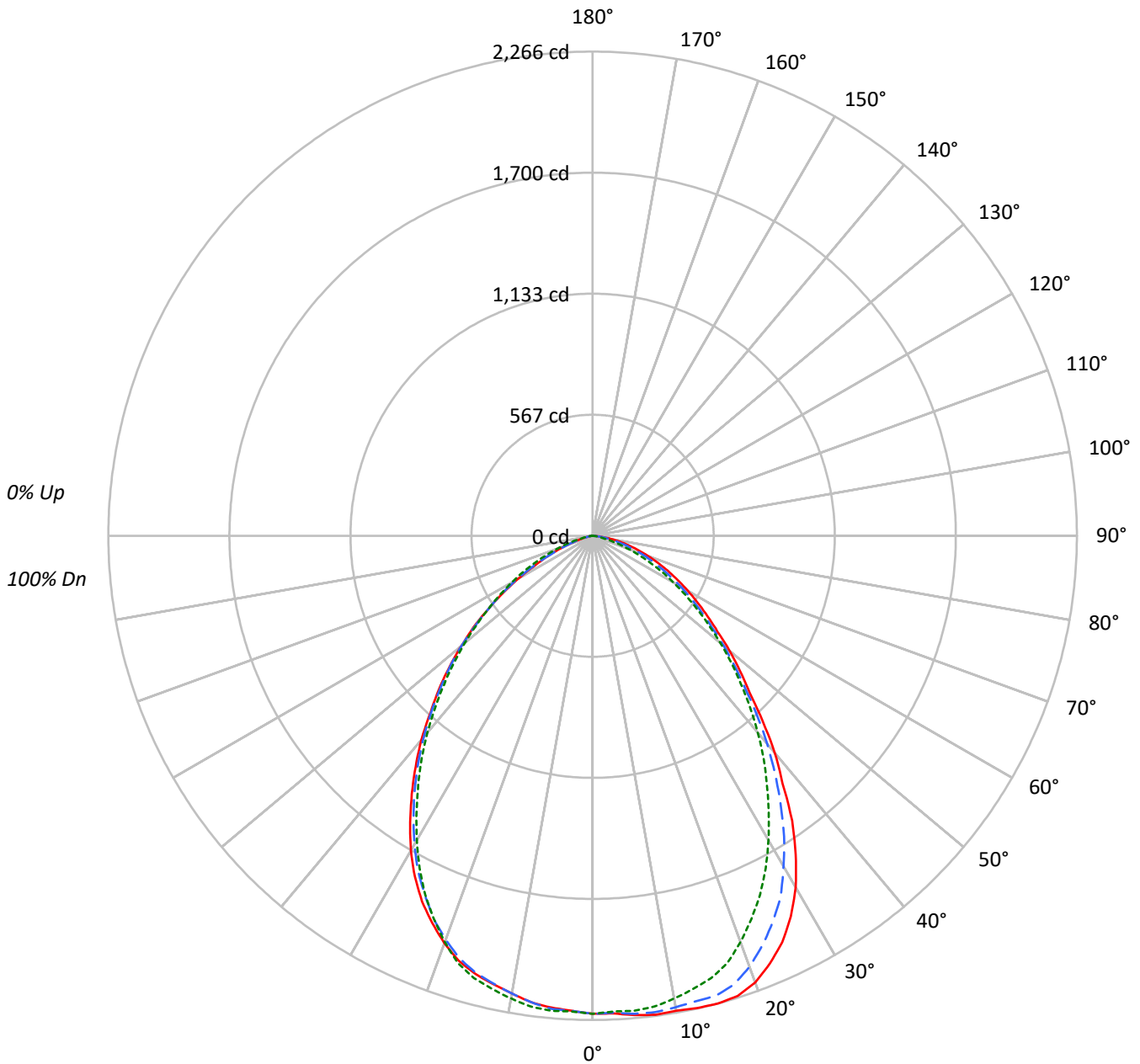
Input Watts (W): 55  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	122638	122638	122638
5°	123910	122782	121979
10°	125671	122404	121101
15°	128633	121641	120472
20°	129820	118019	118363
25°	126981	112083	114212
30°	120265	104124	107643
35°	108897	95165	98691
40°	94842	86033	89174
45°	80466	76147	78876
50°	71264	66522	68271
55°	62765	56887	56600
60°	56256	47891	44043
65°	50200	38409	31560
70°	44174	27729	19731
75°	37257	16775	11184
80°	28697	7419	4609
85°	16605	1824	1824



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	212.3	4.8
10°-20°	610.3	13.9
20°-30°	882.2	20.1
30°-40°	928.3	21.2
40°-50°	780.4	17.8
50°-60°	547.7	12.5
60°-70°	301.3	6.9
70°-80°	107.0	2.4
80°-90°	14.0	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°	1704.9	38.9
0°-40°	2633.2	60.1
0°-60°	3961.3	90.4
0°-90°	4383.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4383.5	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	2237	2237	2237	2237	2237	
5°	2252	2246	2231	2222	2217	215
15°	2266	2228	2143	2117	2123	640
25°	2099	1994	1853	1856	1888	960
35°	1627	1533	1422	1451	1475	1009
45°	1038	1009	982	1006	1017	814
55°	657	622	595	595	592	591
65°	387	346	296	243	243	385
75°	176	141	79	53	53	189
85°	26	15	3	3	3	36
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°	2237.1	2237.1	2237.1	2237.1	2237.1	2237.1	2237.1	2237.1	2237.1
2.5°	2237.1	2237.1	2234.2	2234.2	2228.3	2228.3	2225.3	2225.3	2225.3
5°	2251.7	2251.7	2245.8	2237.1	2231.2	2222.4	2222.4	2219.6	2216.6
7.5°	2260.6	2257.6	2248.8	2237.1	2222.4	2207.8	2201.9	2204.8	2201.9
10°	2257.6	2251.7	2240.1	2216.6	2198.9	2178.4	2175.5	2172.6	2175.5
12.5°	2263.5	2254.7	2231.2	2201.9	2172.6	2149.1	2146.2	2146.2	2149.1
15°	2266.5	2257.6	2228.3	2184.3	2143.3	2119.9	2116.9	2119.9	2122.7
17.5°	2257.6	2245.8	2201.9	2143.3	2096.3	2072.9	2072.9	2078.8	2084.6
20°	2225.3	2207.8	2146.2	2075.8	2023.0	2005.5	2011.3	2023.0	2028.9
22.5°	2166.8	2146.2	2075.8	1996.6	1941.0	1926.3	1941.0	1955.6	1961.5
25°	2099.3	2075.8	1993.8	1911.7	1853.0	1835.4	1855.9	1879.4	1888.2
27.5°	2008.4	1982.0	1905.8	1812.0	1753.3	1744.6	1768.0	1794.4	1800.2
30°	1899.9	1870.6	1785.6	1697.7	1644.9	1641.9	1668.3	1691.8	1700.5
32.5°	1768.0	1741.6	1668.3	1580.3	1533.4	1533.4	1559.8	1580.3	1589.1
35°	1627.2	1598.0	1533.4	1460.1	1422.0	1425.0	1451.3	1466.0	1474.7
37.5°	1460.1	1451.3	1401.4	1339.9	1313.5	1319.4	1339.9	1351.6	1360.4
40°	1325.3	1301.7	1269.6	1219.7	1202.2	1207.9	1228.6	1240.2	1246.1
42.5°	1178.6	1164.0	1137.6	1102.5	1090.7	1099.5	1117.1	1125.9	1123.0
45°	1037.9	1035.0	1008.6	988.1	982.2	993.9	1005.6	1014.5	1017.4
47.5°	935.3	923.6	900.1	885.4	879.5	891.3	903.1	908.9	908.9
50°	835.6	823.9	800.5	785.7	780.0	791.6	800.5	806.2	800.5
52.5°	735.9	724.2	703.7	686.0	683.1	689.0	691.9	694.9	700.8
55°	656.7	645.0	621.6	601.1	595.2	598.1	595.2	595.2	592.2
57.5°	580.6	568.8	545.3	521.9	513.1	510.1	501.4	498.4	495.5
60°	513.1	498.4	475.0	448.6	436.8	425.2	410.4	401.7	401.7
62.5°	448.6	434.0	407.6	384.0	366.5	346.0	322.5	310.7	310.7
65°	387.0	375.3	346.0	319.6	296.1	269.7	243.3	237.4	243.3
67.5°	328.4	316.6	287.3	260.9	231.7	199.4	175.9	175.9	181.8
70°	275.6	263.8	237.4	205.3	173.0	140.7	123.1	123.1	123.1
72.5°	225.8	214.0	184.8	155.4	123.1	90.9	82.1	85.1	82.1
75°	175.9	167.1	140.7	108.5	79.2	55.7	52.8	49.8	52.8
77.5°	132.0	123.1	99.7	70.4	44.0	32.3	29.3	29.3	29.3
80°	90.9	82.1	64.5	41.0	23.5	14.6	14.6	14.6	14.6
82.5°	55.7	46.9	35.2	20.5	8.8	8.8	8.8	8.8	8.8
85°	26.4	20.5	14.6	5.9	2.9	2.9	2.9	2.9	2.9
87.5°	5.9	5.9	2.9	2.9	0.0	2.9	2.9	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)