

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: P581972

Luminaire Tested: **HC620D010-HM60525940-61RWWH**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P581972  
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: HC620D010-HM60525940-61RWWH  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1966.6 lumens  
Efficiency: N/A  
Efficacy: 98.3 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

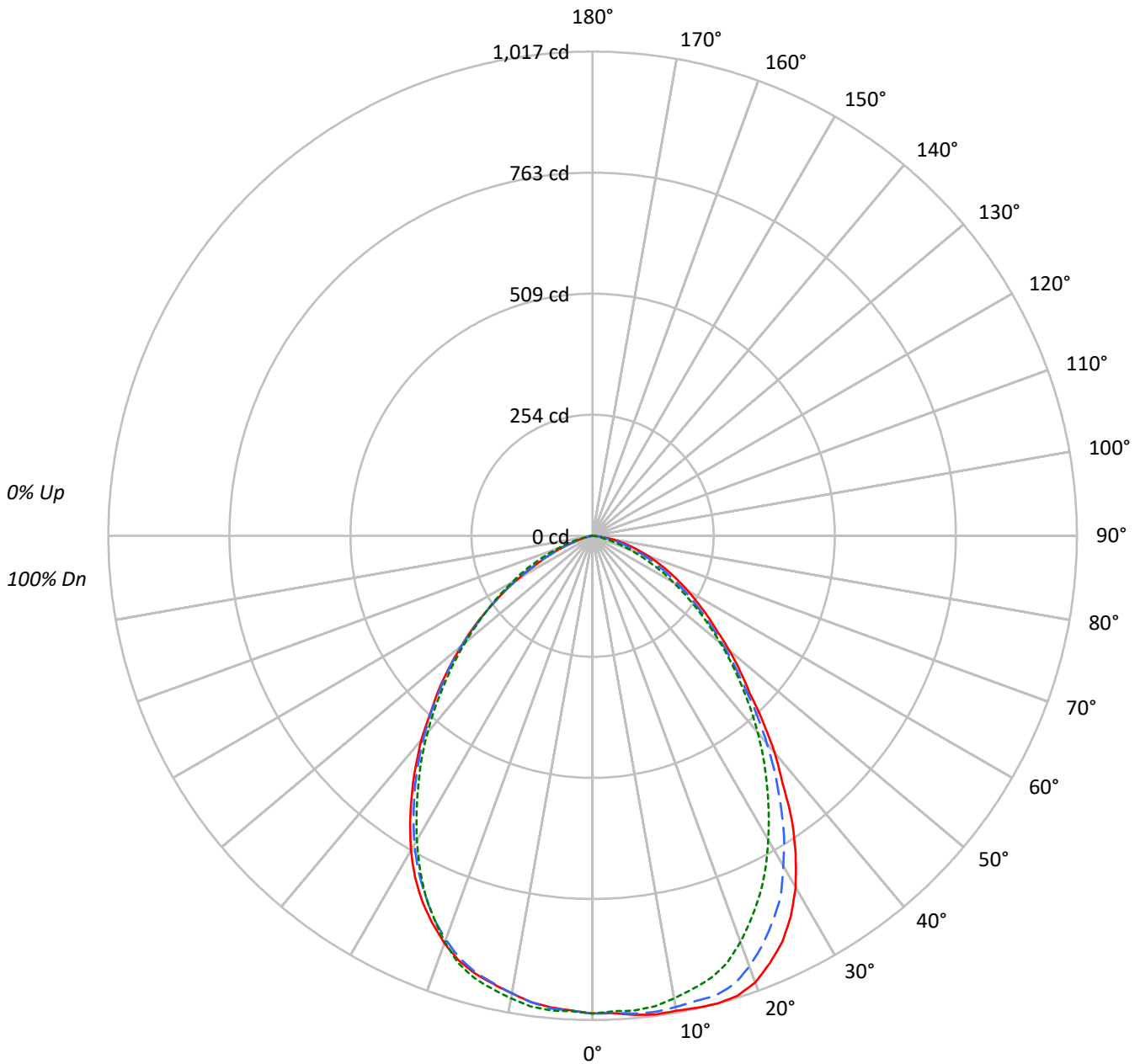
Input Watts (W): 20  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20				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°	55018	55018	55018
5°	55591	55085	54721
10°	56378	54914	54330
15°	57707	54569	54047
20°	58239	52942	53105
25°	56961	50283	51233
30°	53958	46710	48286
35°	48854	42697	44276
40°	42544	38594	40004
45°	36105	34159	35384
50°	31973	29841	30617
55°	28157	25519	25395
60°	25239	21490	19746
65°	22519	17239	14165
70°	19811	12438	8864
75°	16733	7519	5020
80°	12880	3315	2084
85°	7422	881	881



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	95.3	4.8
10°-20°	273.8	13.9
20°-30°	395.8	20.1
30°-40°	416.5	21.2
40°-50°	350.1	17.8
50°-60°	245.7	12.5
60°-70°	135.2	6.9
70°-80°	48.0	2.4
80°-90°	6.3	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°	764.8	38.9
0°-40°	1181.3	60.1
0°-60°	1777.1	90.4
0°-90°	1966.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1966.6	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1004	1004	1004	1004	1004	
5°	1010	1008	1001	997	994	97
15°	1017	1000	962	950	952	287
25°	942	894	831	833	847	431
35°	730	688	638	651	662	452
45°	466	452	441	451	456	365
55°	295	279	267	267	266	265
65°	174	155	133	109	109	173
75°	79	63	36	24	24	85
85°	12	7	1	1	1	16
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°	1003.6	1003.6	1003.6	1003.6	1003.6	1003.6	1003.6	1003.6	1003.6
2.5°	1003.6	1003.6	1002.3	1002.3	999.6	999.6	998.3	998.3	998.3
5°	1010.2	1010.2	1007.6	1003.6	1001.0	997.0	997.0	995.7	994.4
7.5°	1014.1	1012.8	1008.8	1003.6	997.0	990.5	987.9	989.1	987.9
10°	1012.8	1010.2	1004.9	994.4	986.5	977.3	976.0	974.6	976.0
12.5°	1015.4	1011.5	1001.0	987.9	974.6	964.2	962.8	962.8	964.2
15°	1016.8	1012.8	999.6	979.9	961.5	951.0	949.7	951.0	952.3
17.5°	1012.8	1007.6	987.9	961.5	940.5	930.0	930.0	932.6	935.2
20°	998.3	990.5	962.8	931.2	907.5	899.7	902.3	907.5	910.3
22.5°	972.0	962.8	931.2	895.7	870.7	864.1	870.7	877.3	880.0
25°	941.7	931.2	894.4	857.6	831.3	823.4	832.6	843.2	847.0
27.5°	901.0	889.2	855.0	812.9	786.5	782.7	793.1	805.0	807.6
30°	852.4	839.2	801.0	761.6	737.9	736.6	748.5	759.0	762.8
32.5°	793.1	781.3	748.5	708.9	688.0	688.0	699.7	708.9	712.9
35°	730.0	716.8	688.0	655.0	638.0	639.2	651.1	657.7	661.6
37.5°	655.0	651.1	628.7	601.1	589.3	591.9	601.1	606.4	610.3
40°	594.5	584.1	569.6	547.1	539.3	541.9	551.1	556.4	559.0
42.5°	528.8	522.2	510.3	494.6	489.3	493.2	501.1	505.1	503.7
45°	465.7	464.3	452.5	443.2	440.6	445.9	451.2	455.1	456.4
47.5°	419.5	414.3	403.8	397.2	394.6	399.8	405.2	407.8	407.8
50°	374.9	369.6	359.0	352.5	349.9	355.2	359.0	361.8	359.0
52.5°	330.2	324.8	315.7	307.8	306.5	309.1	310.4	311.7	314.4
55°	294.6	289.4	278.8	269.7	267.0	268.3	267.0	267.0	265.7
57.5°	260.5	255.2	244.6	234.1	230.2	228.9	224.9	223.7	222.3
60°	230.2	223.7	213.1	201.2	196.0	190.7	184.1	180.1	180.1
62.5°	201.2	194.6	182.9	172.3	164.4	155.2	144.7	139.5	139.5
65°	173.6	168.4	155.2	143.3	132.9	121.0	109.2	106.5	109.2
67.5°	147.3	142.1	128.9	117.0	103.9	89.4	79.0	79.0	81.6
70°	123.6	118.4	106.5	92.1	77.6	63.1	55.3	55.3	55.3
72.5°	101.3	96.0	82.8	69.7	55.3	40.8	36.8	38.2	36.8
75°	79.0	75.0	63.1	48.7	35.5	25.0	23.7	22.3	23.7
77.5°	59.1	55.3	44.8	31.6	19.7	14.5	13.1	13.1	13.1
80°	40.8	36.8	28.9	18.5	10.5	6.6	6.6	6.6	6.6
82.5°	25.0	21.1	15.7	9.2	4.0	4.0	4.0	4.0	4.0
85°	11.8	9.2	6.6	2.6	1.4	1.4	1.4	1.4	1.4
87.5°	2.6	2.6	1.4	1.4	0.0	1.4	1.4	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)