

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: P582953

Luminaire Tested: **HC605D010-HM60525930-61WWWB**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P582953  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-18)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/16/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC605D010-HM60525930-61WWWB  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, BLACK BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 586.5 lumens  
Efficiency: N/A  
Efficacy: 97.7 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.09 / 1.17  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

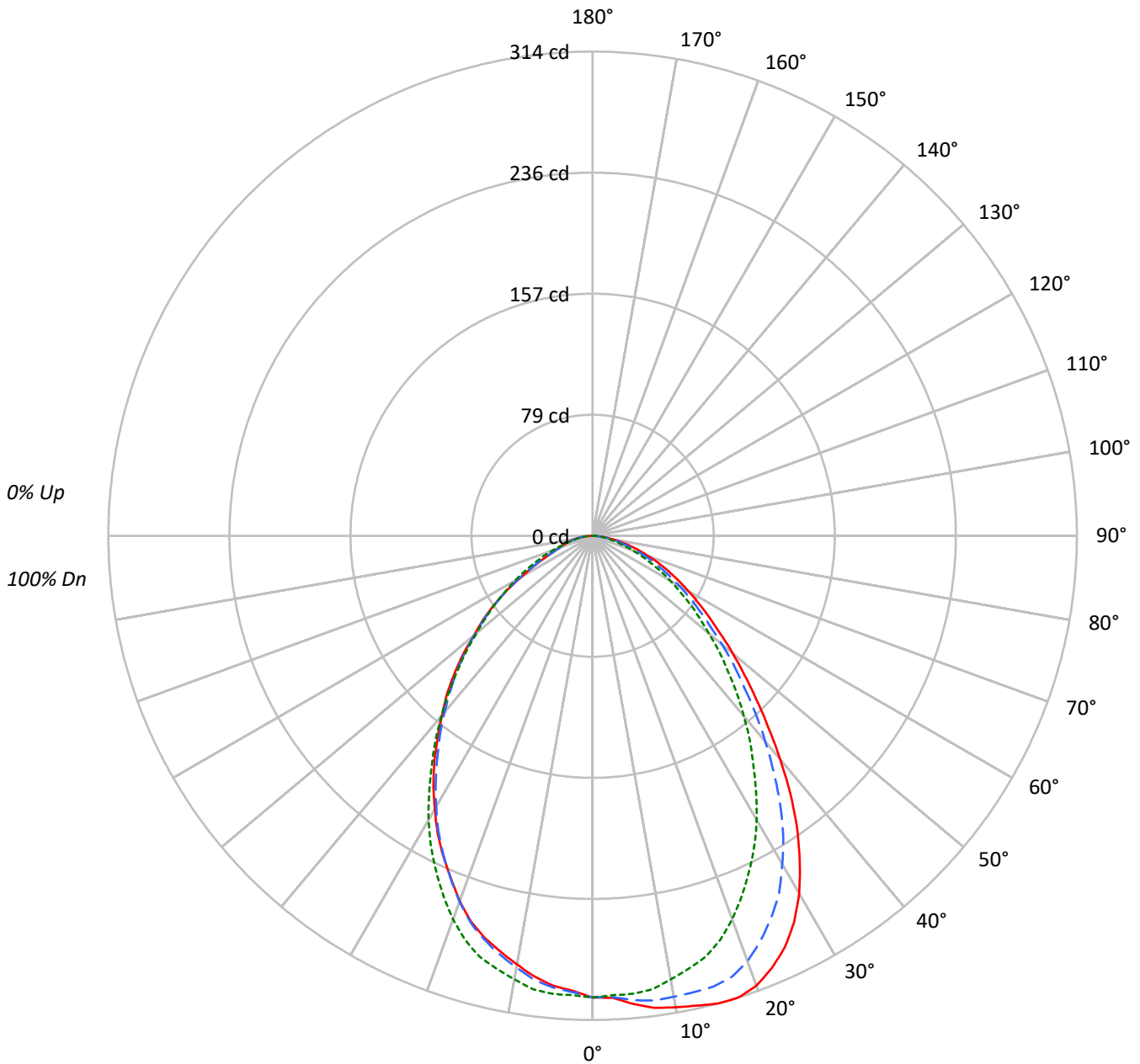
Input Watts (W): 6  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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				100				
1	111	107	103	100	108	104	101	98	100	97	95	96	94	92	93	91	89	87				87				
2	102	95	89	84	100	93	88	83	90	85	81	87	83	80	84	81	78	76				76				
3	94	85	78	72	92	84	77	72	81	75	71	78	73	69	76	72	68	66				66				
4	87	77	69	63	85	75	68	63	73	67	62	71	65	61	69	64	60	58				58				
5	81	70	61	56	79	68	61	55	66	60	55	65	59	54	63	58	54	52				52				
6	75	63	55	49	74	62	55	49	61	54	49	59	53	48	58	52	48	46				46				
7	70	58	50	44	69	57	50	44	56	49	44	54	48	44	53	48	43	42				42				
8	66	53	46	40	64	53	45	40	51	45	40	50	44	40	49	44	39	38				38				
9	62	49	42	37	60	49	42	37	48	41	36	47	41	36	46	40	36	34				34				
10	58	46	38	34	57	45	38	33	44	38	33	43	37	33	43	37	33	31				31				

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

	0°	90°	180°
0°	16413	16413	16413
5°	16773	16410	16118
10°	17284	16260	15714
15°	17826	16044	15324
20°	18114	15436	14701
25°	17820	14523	13858
30°	16958	13470	12945
35°	15466	12153	11966
40°	13525	10913	10863
45°	11645	9613	9830
50°	10115	8375	8546
55°	8831	7359	7426
60°	7850	6370	5833
65°	7005	5370	4462
70°	6155	4408	3735
75°	5295	3474	3537
80°	4230	2968	3504
85°	2830	2579	3082



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	28.4	4.8
10°-20°	80.7	13.8
20°-30°	115.2	19.6
30°-40°	120.7	20.6
40°-50°	101.6	17.3
50°-60°	72.3	12.3
60°-70°	42.4	7.2
70°-80°	20.0	3.4
80°-90°	5.2	0.9
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°	224.3	38.2
0°-40°	345.0	58.8
0°-60°	518.9	88.5
0°-90°	586.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	586.5	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	299	299	299	299	299	
5°	305	302	298	294	293	29
15°	314	303	283	271	270	89
25°	295	274	240	229	229	135
35°	231	212	182	176	179	144
45°	150	139	124	124	127	117
55°	92	85	77	77	78	83
65°	54	48	41	35	34	54
75°	25	21	16	16	17	27
85°	4	4	4	5	5	6
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°	299.4	299.4	299.4	299.4	299.4	299.4	299.4	299.4	299.4
2.5°	299.9	299.9	299.4	299.0	298.2	297.0	296.2	295.4	295.4
5°	304.8	304.0	302.3	300.2	298.2	295.7	294.1	292.9	292.9
7.5°	308.8	307.2	304.0	300.2	296.6	293.3	290.4	288.8	288.4
10°	310.5	308.5	303.5	297.9	292.1	287.6	284.3	282.3	282.3
12.5°	312.1	309.6	303.2	294.9	287.6	281.5	278.2	276.5	276.2
15°	314.1	310.9	302.7	292.4	282.7	275.7	271.2	270.0	270.0
17.5°	314.1	310.1	299.9	287.1	274.9	267.1	263.1	261.8	262.3
20°	310.5	306.0	293.7	278.2	264.6	256.5	252.4	251.5	252.0
22.5°	303.5	298.2	284.3	267.6	252.8	244.2	240.6	240.6	240.1
25°	294.6	288.8	273.7	256.1	240.1	231.5	228.7	229.1	229.1
27.5°	282.7	277.0	261.8	243.0	227.0	218.4	216.4	217.2	217.6
30°	267.9	261.8	245.9	227.5	212.8	204.1	202.9	204.1	204.5
32.5°	250.0	245.4	230.0	211.1	197.2	189.8	189.4	190.6	192.2
35°	231.1	226.2	211.9	194.7	181.6	175.5	175.5	177.5	178.8
37.5°	210.6	205.8	192.7	178.3	167.4	161.6	162.4	164.4	164.9
40°	189.0	185.3	174.2	162.0	152.5	148.1	149.3	151.3	151.8
42.5°	168.6	165.3	156.3	145.2	138.3	135.0	136.6	139.1	139.9
45°	150.2	146.4	139.1	129.7	124.0	122.3	124.4	126.0	126.8
47.5°	133.3	130.1	124.0	115.4	111.3	110.4	112.5	113.3	114.1
50°	118.6	115.4	109.3	101.5	98.2	98.2	99.8	100.7	100.2
52.5°	104.3	101.5	95.7	89.2	87.1	87.1	88.4	88.8	89.6
55°	92.4	89.6	84.6	78.5	77.0	76.0	77.0	77.0	77.7
57.5°	81.4	79.0	74.5	68.7	66.7	65.9	65.4	65.1	65.9
60°	71.6	69.5	64.6	59.8	58.1	56.0	54.4	52.8	53.2
62.5°	62.6	60.6	56.0	51.2	49.5	46.7	44.6	42.6	43.4
65°	54.0	52.0	47.9	43.7	41.4	38.1	34.8	33.6	34.4
67.5°	46.2	44.6	40.5	36.4	34.4	30.7	27.5	27.5	27.8
70°	38.4	36.8	33.6	29.8	27.5	24.2	22.9	23.3	23.3
72.5°	31.5	30.3	27.0	23.7	21.2	19.2	19.2	19.7	20.0
75°	25.0	24.2	20.9	18.0	16.4	15.1	15.9	16.4	16.7
77.5°	19.2	18.0	15.6	13.4	12.3	12.7	13.4	13.9	14.4
80°	13.4	13.1	11.1	9.8	9.4	9.8	10.6	11.1	11.1
82.5°	8.6	8.1	7.0	6.6	6.6	7.0	7.8	7.8	7.8
85°	4.5	4.1	3.7	3.7	4.1	4.5	4.9	4.9	4.9
87.5°	1.6	1.2	1.6	1.6	2.0	2.0	2.0	2.0	2.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



Report Generated By 670245859 / DESKTOP-HRDQ47P







— 0°-180°    - - 45°-225°    - - - - 90°-270°







(END OF REPORT)