

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: P581745

Luminaire Tested: **HC615D010-HM60525835-61WWBB**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P581745  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-17)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/16/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC615D010-HM60525835-61WWBB  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1372.7 lumens  
Efficiency: N/A  
Efficacy: 98.1 lumens/watt  
Spacing Criteria (0/90/45): 1.15 / 1.06 / 1.14  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

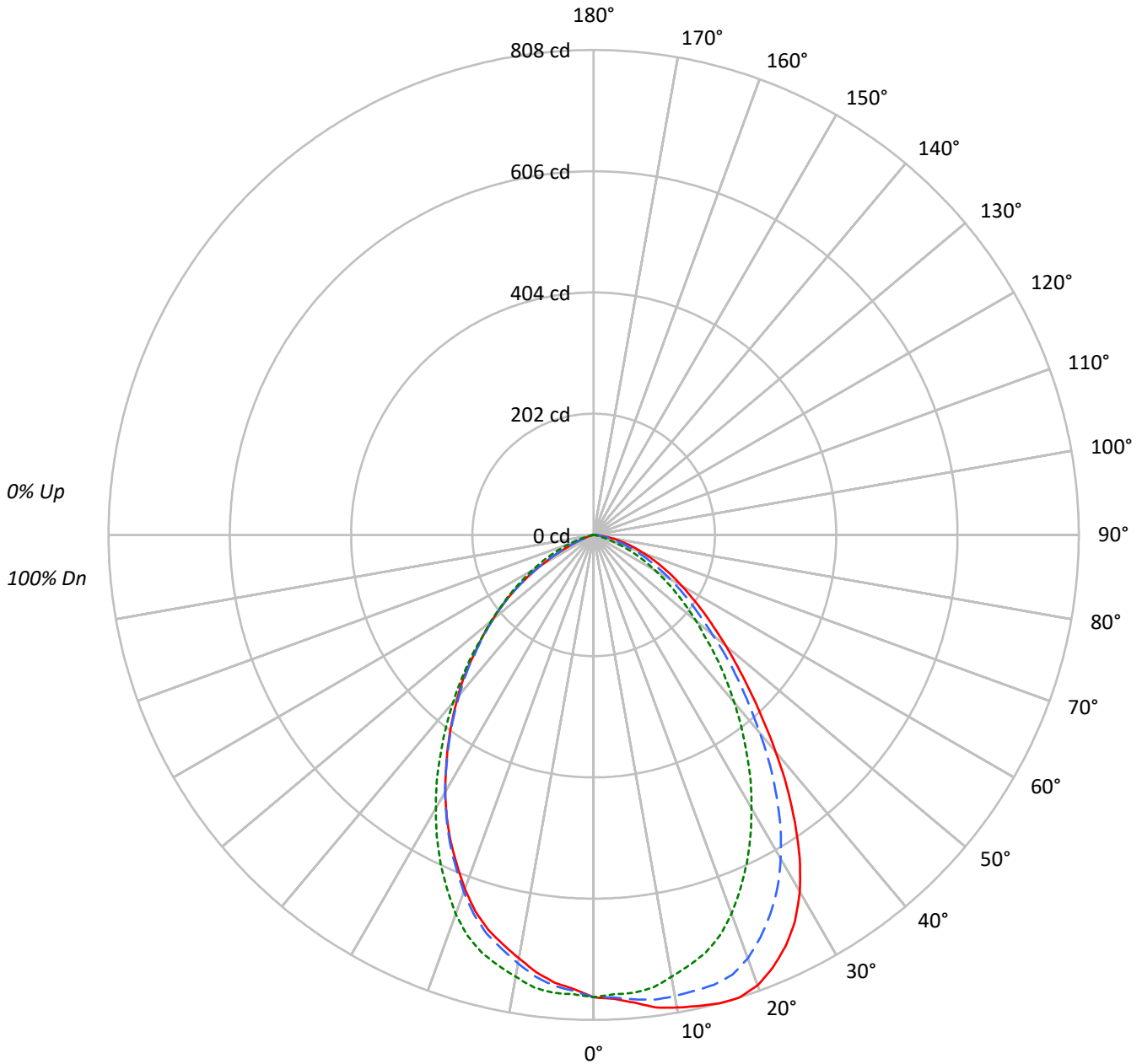
Input Watts (W): 14  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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

RF	20									20									20									20									
RC	80									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	108	104	101	109	105	102	100	101	99	97	97	95	94	94	92	91	89																			
2	103	97	91	87	101	95	90	86	91	87	84	88	85	82	85	83	80	78																			
3	96	87	80	75	93	86	79	74	83	77	73	80	76	72	78	74	71	69																			
4	89	79	71	66	87	78	71	65	75	69	64	73	68	64	71	66	63	61																			
5	83	72	64	58	81	71	63	58	69	62	57	67	61	57	65	60	56	54																			
6	77	65	58	52	75	65	57	52	63	56	51	61	55	51	60	55	51	49																			
7	72	60	52	47	70	59	52	47	58	51	46	56	51	46	55	50	46	44																			
8	67	55	48	43	66	55	47	42	53	47	42	52	46	42	51	46	42	40																			
9	63	51	44	39	62	51	44	39	50	43	39	49	43	38	48	42	38	37																			
10	60	48	40	36	58	47	40	36	46	40	36	45	40	35	45	39	35	34																			

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

	0°	90°	180°
0°	42228	42228	42228
5°	43044	42153	41195
10°	44510	41610	39868
15°	45869	40891	38615
20°	46583	39186	36596
25°	45747	36504	34079
30°	43481	33265	31277
35°	39083	29727	28201
40°	33727	26049	25197
45°	28553	22429	21839
50°	24494	18942	18763
55°	21227	15942	15330
60°	18529	12938	10931
65°	16292	9988	6032
70°	14057	6604	2949
75°	11925	3219	1144
80°	9250	1357	695
85°	5409	692	692



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	72.7	5.3
10°-20°	205.6	15.0
20°-30°	289.5	21.1
30°-40°	295.8	21.5
40°-50°	238.5	17.4
50°-60°	159.9	11.7
60°-70°	80.9	5.9
70°-80°	25.9	1.9
80°-90°	4.0	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°	567.7	41.4
0°-40°	863.5	62.9
0°-60°	1261.9	91.9
0°-90°	1372.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1372.7	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	770	770	770	770	770	
5°	782	777	766	754	749	75
15°	808	776	720	688	680	228
25°	756	697	604	567	563	346
35°	584	531	444	419	421	363
45°	368	339	289	280	282	286
55°	222	197	167	159	160	200
65°	126	104	77	51	46	125
75°	56	40	15	5	5	60
85°	9	4	1	1	1	12
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°	770.3	770.3	770.3	770.3	770.3	770.3	770.3	770.3	770.3
2.5°	773.6	772.5	771.3	769.2	766.0	762.7	760.6	758.4	757.3
5°	782.2	780.1	776.8	772.5	766.0	758.4	754.1	749.8	748.6
7.5°	794.2	789.8	781.1	771.3	760.6	749.8	742.2	737.9	734.6
10°	799.6	792.0	780.1	763.9	747.5	734.6	724.8	718.3	716.2
12.5°	803.9	795.2	777.9	756.3	734.6	717.2	706.4	701.0	698.8
15°	808.2	799.6	775.8	747.5	720.5	699.8	687.9	682.6	680.4
17.5°	808.2	796.3	768.2	732.4	699.8	675.0	663.1	657.6	656.6
20°	798.5	785.5	750.8	708.6	671.7	643.5	632.8	629.5	627.3
22.5°	780.1	764.9	725.9	678.3	638.1	611.1	599.2	597.0	594.9
25°	756.3	741.0	696.7	645.7	603.5	576.4	566.6	564.4	563.4
27.5°	725.9	709.6	663.1	611.1	565.6	539.6	530.8	530.8	529.8
30°	686.9	668.5	623.0	571.0	525.5	501.7	495.1	495.1	494.1
32.5°	639.2	620.8	579.6	529.8	486.5	461.5	456.2	458.3	457.2
35°	584.0	568.7	530.8	482.1	444.2	421.4	419.3	421.4	421.4
37.5°	528.7	514.6	482.1	439.9	404.1	383.5	383.5	386.8	385.7
40°	471.3	460.5	430.2	393.3	364.0	349.9	347.8	351.1	352.1
42.5°	417.1	408.5	382.5	352.1	326.1	312.0	315.3	317.5	318.5
45°	368.3	359.7	339.1	307.7	289.3	279.6	279.6	282.7	281.7
47.5°	325.1	318.5	297.9	267.6	251.4	247.0	249.1	251.4	251.4
50°	287.2	277.4	257.9	234.0	222.1	216.7	218.8	220.0	220.0
52.5°	251.4	244.8	225.3	203.7	192.8	189.5	189.5	190.7	190.7
55°	222.1	214.5	197.1	175.5	166.8	162.5	159.2	158.2	160.4
57.5°	194.0	187.4	171.2	150.6	140.9	136.5	130.0	127.8	130.0
60°	169.0	163.6	147.3	127.8	118.0	109.4	101.8	97.5	99.7
62.5°	147.3	140.9	124.6	108.4	97.5	87.7	75.8	69.3	72.6
65°	125.6	120.3	104.0	87.7	77.0	65.0	51.0	46.5	46.5
67.5°	106.1	100.8	85.6	71.5	58.5	44.4	31.4	30.3	31.4
70°	87.7	82.3	69.3	55.3	41.2	27.1	18.4	18.4	18.4
72.5°	72.6	66.1	54.1	40.1	26.0	14.1	9.8	10.8	10.8
75°	56.3	51.0	40.1	27.1	15.2	6.5	5.4	5.4	5.4
77.5°	42.2	37.9	28.1	17.4	7.6	2.2	2.2	2.2	2.2
80°	29.3	25.0	18.4	10.8	4.3	2.2	2.2	2.2	2.2
82.5°	17.4	15.2	10.8	5.4	2.2	1.1	1.1	1.1	1.1
85°	8.6	7.6	4.3	2.2	1.1	1.1	1.1	1.1	1.1
87.5°	2.2	2.2	1.1	1.1	0.0	1.1	1.1	0.0	0.0
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)