

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: P581703

Luminaire Tested: **HC615D010-HM60525827-61RWWH**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P581703  
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: HC615D010-HM60525827-61RWWH  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1482.3 lumens  
Efficiency: N/A  
Efficacy: 105.9 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

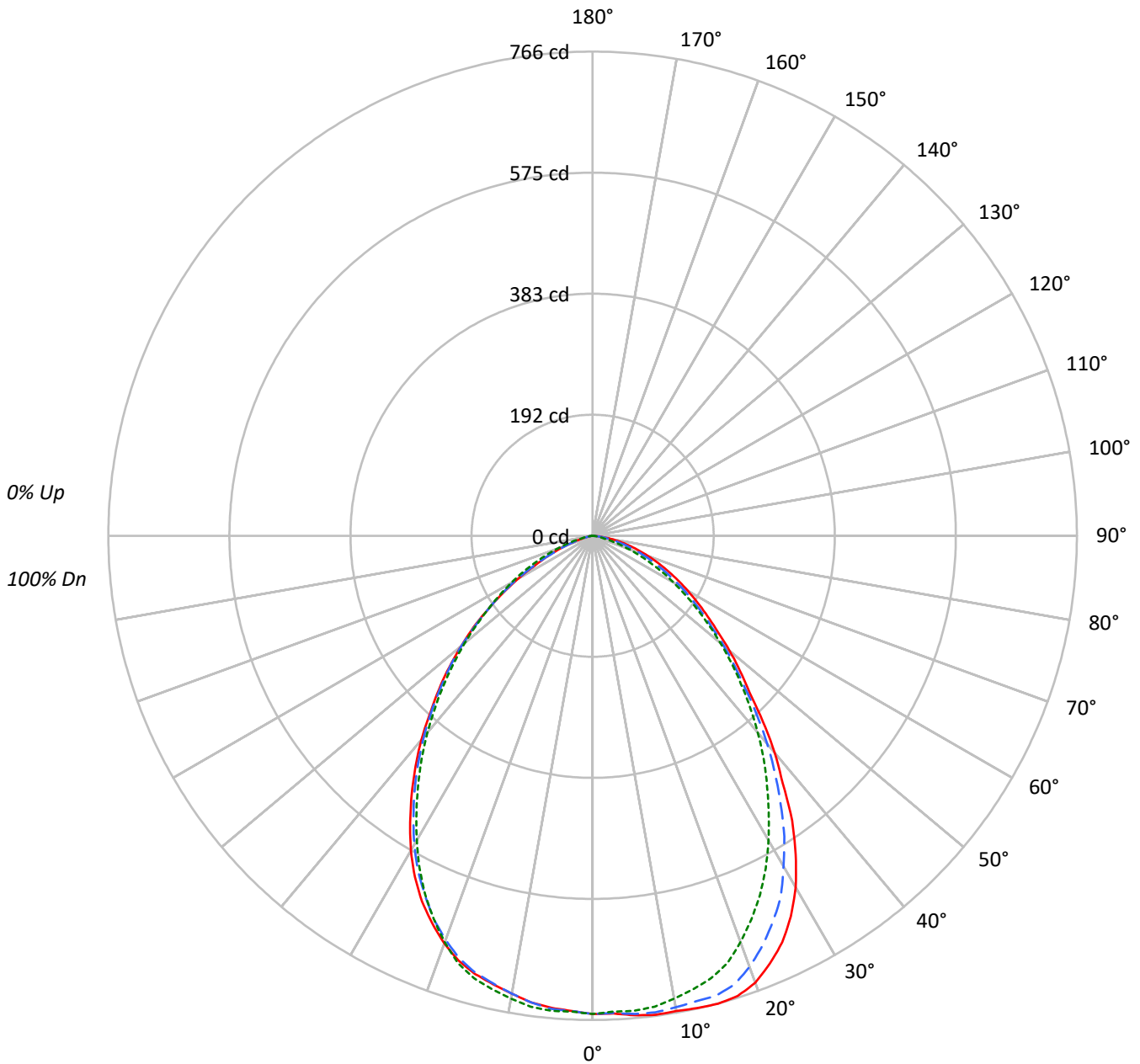
Input Watts (W): 14  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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

RF	20				20				20				20				20				
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°	41471	41471	41471
5°	41900	41514	41250
10°	42495	41388	40948
15°	43496	41130	40738
20°	43900	39909	40026
25°	42934	37895	38615
30°	40664	35208	36398
35°	36821	32177	33375
40°	32067	29083	30149
45°	27204	25747	26669
50°	24093	22490	23087
55°	21227	19230	19134
60°	19023	16194	14900
65°	16980	12985	10676
70°	14938	9377	6684
75°	12603	5676	3770
80°	9723	2494	1578
85°	5661	629	629



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	71.8	4.8
10°-20°	206.4	13.9
20°-30°	298.3	20.1
30°-40°	313.9	21.2
40°-50°	263.9	17.8
50°-60°	185.2	12.5
60°-70°	101.9	6.9
70°-80°	36.2	2.4
80°-90°	4.7	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°	576.5	38.9
0°-40°	890.4	60.1
0°-60°	1339.5	90.4
0°-90°	1482.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1482.3	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	756	756	756	756	756	
5°	761	759	754	752	750	73
15°	766	754	725	716	718	216
25°	710	674	626	628	638	325
35°	550	518	481	491	499	341
45°	351	341	332	340	344	275
55°	222	210	201	201	200	200
65°	131	117	100	82	82	130
75°	60	48	27	18	18	64
85°	9	5	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°	756.5	756.5	756.5	756.5	756.5	756.5	756.5	756.5	756.5
2.5°	756.5	756.5	755.5	755.5	753.5	753.5	752.5	752.5	752.5
5°	761.4	761.4	759.4	756.5	754.4	751.5	751.5	750.5	749.6
7.5°	764.4	763.4	760.4	756.5	751.5	746.5	744.6	745.6	744.6
10°	763.4	761.4	757.4	749.6	743.5	736.6	735.6	734.7	735.6
12.5°	765.3	762.4	754.4	744.6	734.7	726.7	725.7	725.7	726.7
15°	766.4	763.4	753.5	738.5	724.7	716.8	715.8	716.8	717.8
17.5°	763.4	759.4	744.6	724.7	708.8	701.0	701.0	702.9	704.9
20°	752.5	746.5	725.7	701.9	684.1	678.2	680.1	684.1	686.1
22.5°	732.6	725.7	701.9	675.1	656.3	651.4	656.3	661.3	663.3
25°	709.8	701.9	674.2	646.4	626.5	620.6	627.5	635.5	638.4
27.5°	679.1	670.2	644.5	612.7	592.8	589.9	597.8	606.8	608.7
30°	642.4	632.5	603.8	574.0	556.2	555.2	564.1	572.0	575.0
32.5°	597.8	589.0	564.1	534.4	518.5	518.5	527.4	534.4	537.3
35°	550.2	540.4	518.5	493.7	480.8	481.8	490.8	495.7	498.7
37.5°	493.7	490.8	473.9	453.1	444.1	446.2	453.1	457.1	460.0
40°	448.1	440.2	429.3	412.5	406.4	408.5	415.4	419.4	421.3
42.5°	398.5	393.6	384.7	372.7	368.8	371.8	377.7	380.7	379.7
45°	350.9	349.9	341.1	334.1	332.1	336.1	340.0	343.0	344.0
47.5°	316.2	312.2	304.4	299.4	297.4	301.3	305.3	307.4	307.4
50°	282.5	278.6	270.7	265.7	263.7	267.6	270.7	272.6	270.7
52.5°	248.8	244.9	237.9	232.0	231.0	233.0	233.9	234.9	237.0
55°	222.1	218.1	210.2	203.3	201.2	202.3	201.2	201.2	200.2
57.5°	196.4	192.4	184.4	176.5	173.5	172.5	169.6	168.5	167.5
60°	173.5	168.5	160.6	151.6	147.7	143.8	138.8	135.9	135.9
62.5°	151.6	146.8	137.8	129.8	123.9	117.0	109.1	105.1	105.1
65°	130.9	126.9	117.0	108.1	100.1	91.3	82.3	80.4	82.3
67.5°	111.0	107.0	97.2	88.2	78.3	67.4	59.5	59.5	61.5
70°	93.2	89.2	80.4	69.3	58.5	47.6	41.7	41.7	41.7
72.5°	76.4	72.4	62.4	52.6	41.7	30.8	27.8	28.7	27.8
75°	59.5	56.5	47.6	36.7	26.8	18.8	17.8	16.8	17.8
77.5°	44.6	41.7	33.7	23.8	14.9	10.9	9.9	9.9	9.9
80°	30.8	27.8	21.8	13.8	7.9	5.0	5.0	5.0	5.0
82.5°	18.8	15.9	11.9	6.9	3.0	3.0	3.0	3.0	3.0
85°	9.0	6.9	5.0	1.9	1.0	1.0	1.0	1.0	1.0
87.5°	1.9	1.9	1.0	1.0	0.0	1.0	1.0	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)