

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: P581710

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

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P581710  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-16)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/16/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC615D010-HM60525827-61WWW  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

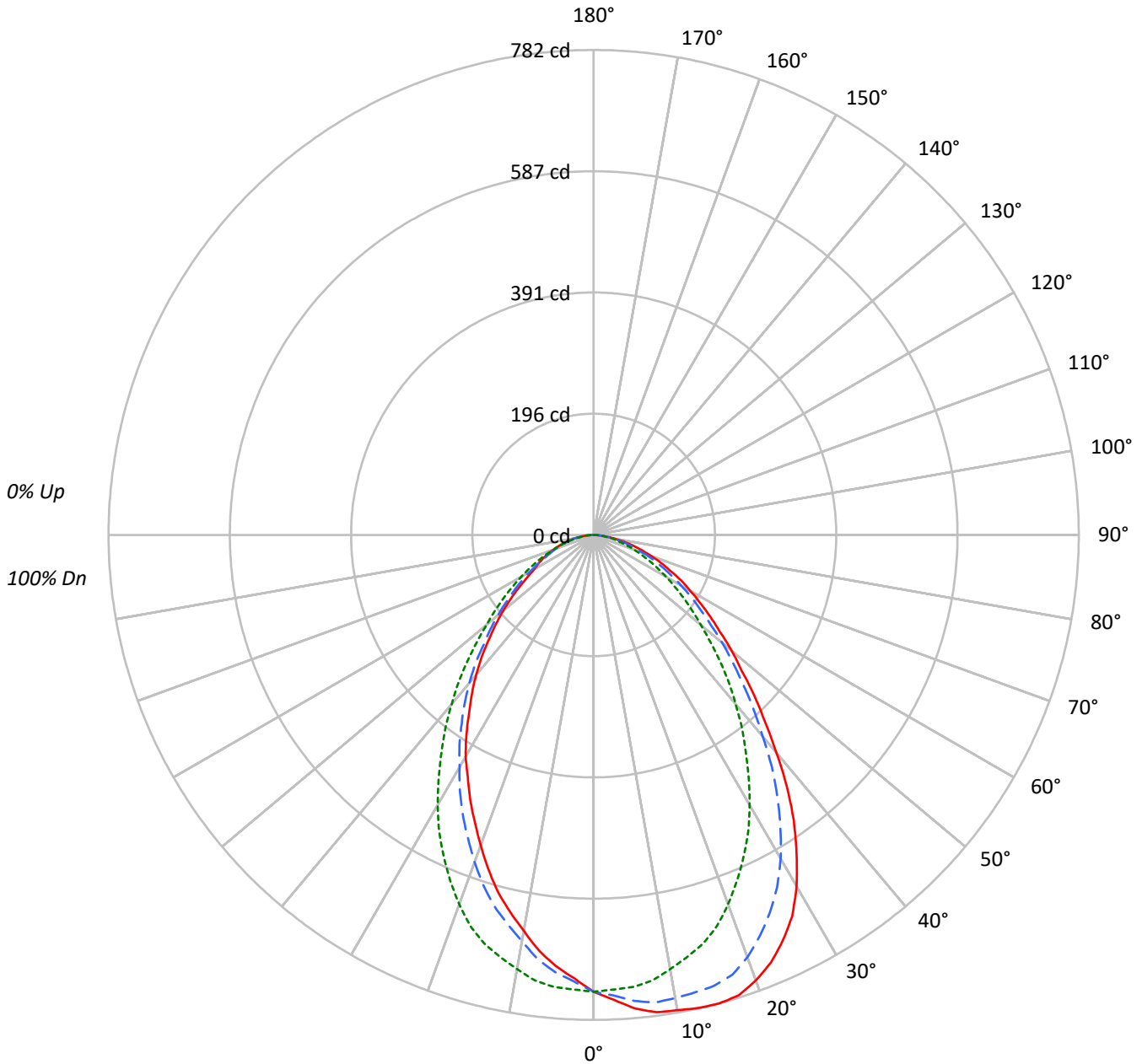
Lumens per Lamp: N/A  
Luminaire Lumens: 1372.2 lumens  
Efficiency: N/A  
Efficacy: 98.0 lumens/watt  
Spacing Criteria (0/90/45): 1.1 / 1.06 / 1.14  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

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				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	110	106	103	99	108	104	101	98	100	97	95	96	94	92	93	91	89	87			87
2	102	95	89	84	99	93	88	83	90	85	81	86	83	79	83	80	78	76			76
3	94	85	78	72	92	83	77	71	80	75	70	78	73	69	75	71	68	66			66
4	87	76	69	63	85	75	68	62	73	67	62	71	65	61	69	64	60	58			58
5	81	69	61	55	79	68	61	55	66	60	55	64	59	54	63	58	53	51			51
6	75	63	55	49	73	62	55	49	61	54	49	59	53	48	57	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	39	34	57	45	38	34	44	38	33	44	38	33	43	37	33	32			32

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

	0°	90°	180°
0°	40381	40381	40381
5°	42175	40265	38411
10°	43325	39573	36094
15°	44393	38712	33820
20°	44594	36963	31059
25°	43654	34599	28483
30°	41418	31821	26112
35°	37624	28596	23416
40°	32783	25469	21068
45°	28360	22289	18521
50°	24767	19198	16230
55°	21887	16869	13925
60°	19669	14780	12071
65°	17628	12868	11700
70°	15740	10963	10963
75°	13662	9235	10294
80°	10955	7798	9376
85°	7485	6856	8114



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	69.2	5.0
10°-20°	192.4	14.0
20°-30°	268.2	19.5
30°-40°	276.3	20.1
40°-50°	229.0	16.7
50°-60°	164.6	12.0
60°-70°	104.8	7.6
70°-80°	53.8	3.9
80°-90°	13.7	1.0
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°	529.9	38.6
0°-40°	806.2	58.8
0°-60°	1199.8	87.4
0°-90°	1372.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1372.2	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	737	737	737	737	737	
5°	766	754	732	708	698	73
15°	782	752	682	620	596	220
25°	722	672	572	499	471	331
35°	562	516	427	371	350	349
45°	366	340	288	251	239	283
55°	229	210	176	157	146	206
65°	136	121	99	86	90	136
75°	64	56	44	46	49	69
85°	12	11	11	12	13	15
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°	736.6	736.6	736.6	736.6	736.6	736.6	736.6	736.6	736.6
2.5°	750.5	747.5	743.5	739.6	733.7	726.7	720.7	718.8	715.8
5°	766.4	762.4	754.4	744.6	731.7	718.8	707.9	701.0	698.0
7.5°	776.3	771.3	760.4	743.5	724.7	705.9	690.1	680.1	676.1
10°	778.3	773.3	758.4	735.6	710.9	685.1	665.2	653.3	648.4
12.5°	781.2	774.3	755.5	728.7	697.0	667.3	642.4	627.5	622.7
15°	782.2	774.3	752.5	719.8	682.1	646.4	619.6	601.8	595.9
17.5°	778.3	769.3	743.5	703.9	661.3	623.6	591.9	573.1	565.1
20°	764.4	754.4	724.7	680.1	633.6	593.8	561.1	541.3	532.4
22.5°	746.6	733.7	700.0	652.4	603.8	562.2	529.5	509.6	500.6
25°	721.7	709.8	672.1	621.6	572.0	528.5	498.7	477.8	470.9
27.5°	693.0	679.2	640.5	589.9	539.4	495.8	466.9	448.1	439.2
30°	654.3	641.5	602.8	552.2	502.7	462.1	432.3	416.4	412.5
32.5°	608.7	597.8	560.1	512.6	465.0	427.3	402.5	385.7	381.7
35°	562.2	549.2	516.5	471.9	427.3	393.6	370.8	355.9	349.9
37.5°	511.5	499.6	471.9	432.3	392.6	360.9	341.1	328.1	322.2
40°	458.1	449.1	423.4	391.6	355.9	328.1	311.3	300.4	294.4
42.5°	408.5	399.5	381.7	352.0	322.2	297.5	282.6	272.6	267.6
45°	365.8	357.9	340.0	314.3	287.5	266.7	250.8	243.9	238.9
47.5°	323.2	319.3	303.4	279.6	254.8	237.0	226.1	218.1	214.2
50°	290.4	285.6	270.7	245.8	225.1	211.2	201.2	194.3	190.3
52.5°	256.7	251.9	237.9	217.1	200.2	187.4	177.5	171.5	167.5
55°	229.0	225.1	210.2	191.4	176.5	165.6	156.6	149.7	145.7
57.5°	203.3	199.3	185.3	167.5	154.7	144.7	136.8	130.9	125.9
60°	179.4	176.5	162.6	145.7	134.8	125.0	117.9	113.0	110.1
62.5°	158.7	152.7	140.7	125.9	116.0	108.1	101.1	98.2	100.1
65°	135.9	132.9	121.0	108.1	99.2	91.3	86.3	88.2	90.2
67.5°	117.0	113.0	103.1	91.3	83.3	77.3	74.3	78.3	79.3
70°	98.2	94.2	85.2	75.4	68.4	64.5	64.5	67.4	68.4
72.5°	80.4	77.3	69.3	61.5	56.5	53.6	55.5	57.5	58.5
75°	64.5	61.5	55.5	48.6	43.6	43.6	45.6	47.6	48.6
77.5°	49.6	47.6	41.7	36.7	34.7	34.7	36.7	37.7	38.7
80°	34.7	32.7	29.7	26.8	24.7	26.8	28.7	28.7	29.7
82.5°	22.8	21.8	19.9	17.8	17.8	18.8	19.9	20.8	20.8
85°	11.9	11.9	10.9	9.9	10.9	11.9	11.9	12.9	12.9
87.5°	4.0	4.0	4.0	4.0	5.0	5.0	5.0	5.0	5.0
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)