

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: P581711

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

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P581711  
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: HC615D010-HM60525827-61WWWB  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, BLACK BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1420.8 lumens  
Efficiency: N/A  
Efficacy: 101.5 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.09 / 1.17  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

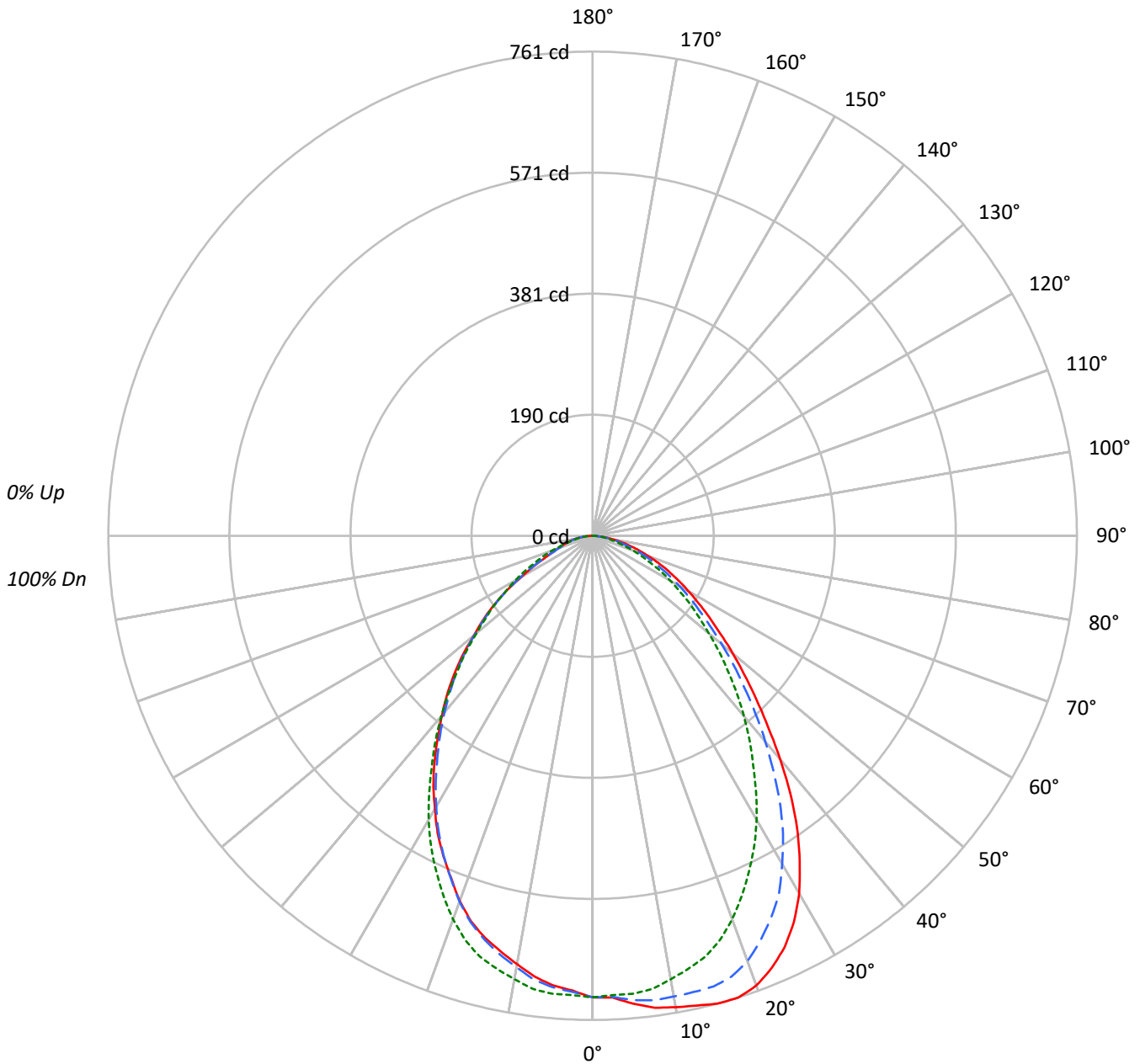
Input Watts (W): 14  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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			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°	39772	39772	39772
5°	40628	39759	39049
10°	41877	39395	38064
15°	43195	38871	37123
20°	43888	37412	35616
25°	43164	35192	33570
30°	41095	32625	31366
35°	37477	29446	28984
40°	32769	26457	26314
45°	28204	23281	23816
50°	24511	20289	20707
55°	21399	17815	17997
60°	19012	15426	14122
65°	16980	12985	10805
70°	14938	10643	9056
75°	12814	8388	8599
80°	10323	7198	8461
85°	6856	6227	7485



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	68.7	4.8
10°-20°	195.6	13.8
20°-30°	279.2	19.6
30°-40°	292.4	20.6
40°-50°	246.2	17.3
50°-60°	175.2	12.3
60°-70°	102.6	7.2
70°-80°	48.5	3.4
80°-90°	12.5	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°	543.4	38.2
0°-40°	835.8	58.8
0°-60°	1257.2	88.5
0°-90°	1420.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1420.8	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	726	726	726	726	726	
5°	738	732	722	713	710	71
15°	761	733	685	657	654	215
25°	714	663	582	554	555	327
35°	560	513	440	425	433	348
45°	364	337	300	301	307	282
55°	224	205	186	186	188	202
65°	131	116	100	84	83	130
75°	60	50	40	39	41	65
85°	11	9	10	12	12	14
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°	725.5	725.5	725.5	725.5	725.5	725.5	725.5	725.5	725.5
2.5°	726.5	726.5	725.5	724.5	722.5	719.6	717.5	715.6	715.6
5°	738.3	736.4	732.4	727.4	722.5	716.5	712.6	709.6	709.6
7.5°	748.3	744.3	736.4	727.4	718.6	710.6	703.7	699.7	698.7
10°	752.3	747.3	735.4	721.5	707.7	696.8	688.8	683.8	683.8
12.5°	756.3	750.2	734.5	714.6	696.8	681.9	674.0	670.0	669.0
15°	761.1	753.2	733.4	708.7	684.9	668.1	657.1	654.1	654.1
17.5°	761.1	751.3	726.5	695.8	666.0	647.2	637.3	634.4	635.3
20°	752.3	741.4	711.6	674.0	641.3	621.4	611.5	609.5	610.5
22.5°	735.4	722.5	688.8	648.2	612.6	591.7	582.8	582.8	581.8
25°	713.6	699.7	663.1	620.4	581.8	560.9	554.0	555.0	555.0
27.5°	684.9	671.0	634.4	588.7	550.0	529.3	524.3	526.3	527.3
30°	649.2	634.4	595.6	551.0	515.4	494.5	491.6	494.5	495.5
32.5°	605.5	594.6	556.9	511.4	477.7	459.9	458.9	461.8	465.8
35°	560.0	548.1	513.4	471.8	440.0	425.2	425.2	430.2	433.1
37.5°	510.4	498.5	466.8	432.1	405.3	391.5	393.5	398.4	399.4
40°	457.9	449.0	422.2	392.5	369.7	358.8	361.7	366.7	367.7
42.5°	408.4	400.4	378.6	351.8	334.9	327.1	331.1	337.0	338.9
45°	363.8	354.8	337.0	314.2	300.3	296.3	301.3	305.3	307.2
47.5°	323.1	315.2	300.3	279.4	269.6	267.6	272.5	274.6	276.5
50°	287.4	279.4	264.6	245.8	237.9	237.9	241.9	243.8	242.8
52.5°	252.8	245.8	231.9	216.1	211.1	211.1	214.1	215.1	217.0
55°	223.9	217.0	205.2	190.3	186.4	184.3	186.4	186.4	188.3
57.5°	197.3	191.2	180.4	166.5	161.5	159.6	158.6	157.5	159.6
60°	173.4	168.4	156.6	144.7	140.7	135.7	131.8	127.8	128.8
62.5°	151.6	146.6	135.7	123.9	120.0	112.9	108.1	103.1	105.1
65°	130.9	125.9	116.0	106.0	100.1	92.2	84.2	81.3	83.3
67.5°	112.0	108.1	98.1	88.2	83.3	74.3	66.4	66.4	67.4
70°	93.2	89.2	81.3	72.3	66.4	58.5	55.5	56.5	56.5
72.5°	76.3	73.3	65.4	57.4	51.5	46.5	46.5	47.6	48.6
75°	60.5	58.5	50.5	43.6	39.6	36.7	38.7	39.6	40.6
77.5°	46.5	43.6	37.7	32.7	29.7	30.8	32.7	33.7	34.7
80°	32.7	31.7	26.8	23.8	22.8	23.8	25.8	26.8	26.8
82.5°	20.8	19.9	16.8	15.9	15.9	16.8	18.8	18.8	18.8
85°	10.9	9.9	9.0	9.0	9.9	10.9	11.9	11.9	11.9
87.5°	4.0	3.0	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)