

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: P581828

Luminaire Tested: **HC615D010-HM60525940-61RWWC**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P581828
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-14)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC615D010-HM60525940-61RWWC
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1451.8 lumens
Efficiency: N/A
Efficacy: 103.7 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.15 / 1.2
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

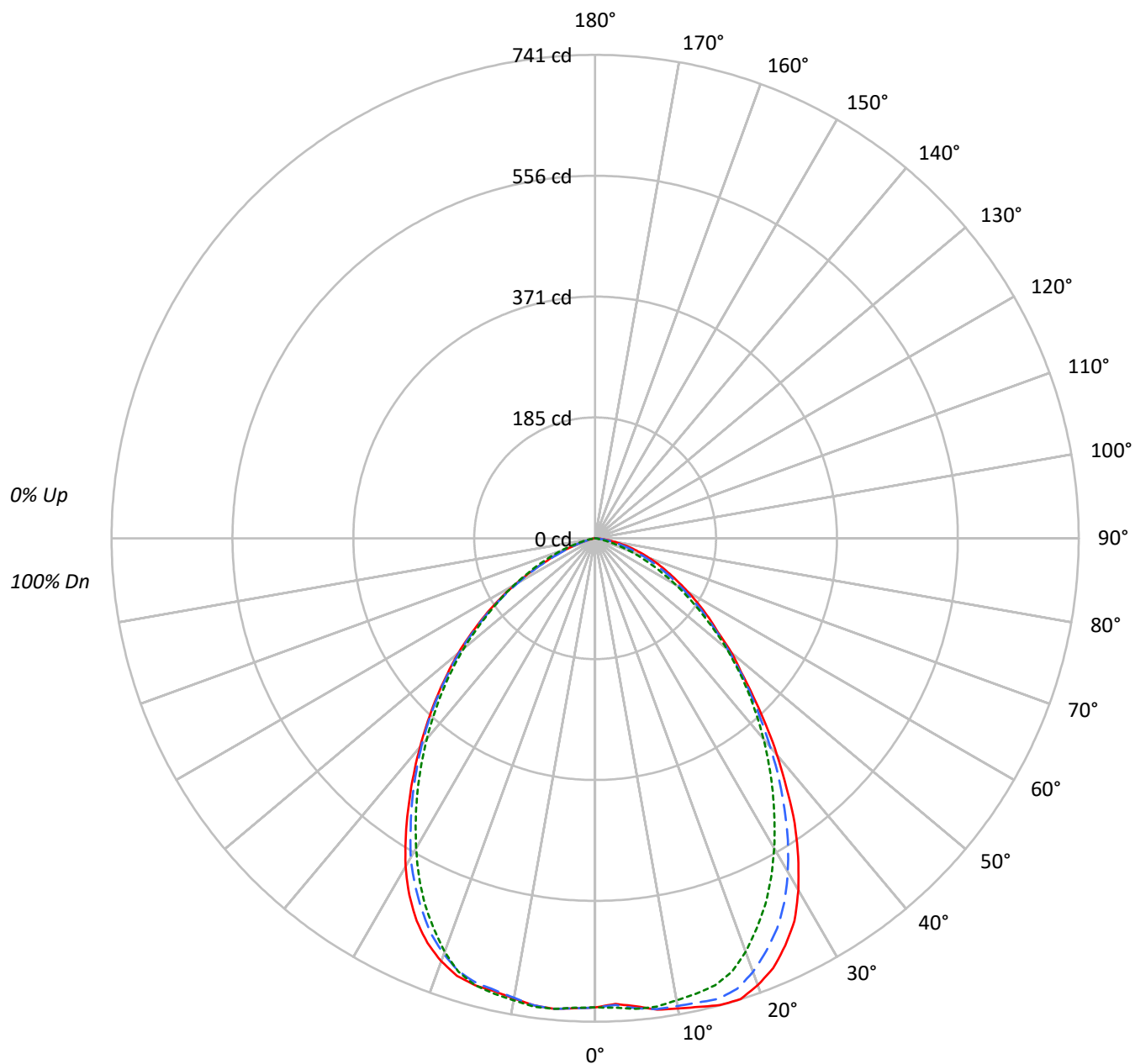
Input Watts (W): 14
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	94	92	90	88		
2	103	96	90	86	100	94	89	85	91	86	83	88	84	81	85	82	79	77		
3	95	86	79	74	93	85	78	73	82	76	72	79	75	71	77	73	69	68		
4	88	78	70	64	86	76	69	64	74	68	63	72	67	62	70	65	61	60		
5	82	70	62	57	80	69	62	56	67	61	56	65	60	55	64	59	55	53		
6	76	64	56	50	74	63	56	50	62	55	50	60	54	49	58	53	49	47		
7	71	59	51	45	69	58	50	45	56	50	45	55	49	45	54	48	44	42		
8	66	54	46	41	65	53	46	41	52	45	41	51	45	40	50	44	40	38		
9	62	50	42	37	61	49	42	37	48	42	37	47	41	37	46	41	37	35		
10	59	46	39	34	57	46	39	34	45	38	34	44	38	34	43	38	34	32		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	39421	39421	39421
5°	39621	39841	39841
10°	40731	40029	39868
15°	42032	40261	40261
20°	42517	39338	40248
25°	41670	37369	39135
30°	39417	34721	36765
35°	35670	31755	33321
40°	31030	28725	29842
45°	26514	25607	26514
50°	23274	22438	23351
55°	20310	18905	19641
60°	17948	15700	15492
65°	15929	12388	10611
70°	14057	8751	6411
75°	11967	4956	3092
80°	8934	1547	947
85°	4906	629	629



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.0	4.8
10°-20°	201.8	13.9
20°-30°	294.8	20.3
30°-40°	309.1	21.3
40°-50°	260.4	17.9
50°-60°	182.5	12.6
60°-70°	97.8	6.7
70°-80°	32.8	2.3
80°-90°	3.6	0.2
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°	565.5	39.0
0°-40°	874.7	60.2
0°-60°	1317.6	90.8
0°-90°	1451.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1451.8	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	719	719	719	719	719	
5°	720	723	724	724	724	69
15°	741	731	709	705	709	209
25°	689	660	618	628	647	316
35°	533	506	474	488	498	331
45°	342	336	330	339	342	266
55°	212	206	198	202	206	191
65°	123	112	96	79	82	123
75°	56	44	23	15	15	60
85°	8	4	1	1	1	11
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°	719.1	719.1	719.1	719.1	719.1	719.1	719.1	719.1	719.1
2.5°	714.3	714.3	716.2	718.1	720.0	720.0	721.1	722.0	721.1
5°	720.0	720.0	723.0	724.0	724.0	723.0	724.0	724.0	724.0
7.5°	728.8	726.9	727.9	725.9	724.0	723.0	722.0	722.0	722.0
10°	731.7	729.8	727.9	724.0	719.1	716.2	715.2	716.2	716.2
12.5°	735.7	733.7	728.8	721.1	715.2	710.3	709.4	711.3	711.3
15°	740.6	738.5	730.8	718.1	709.4	704.5	705.4	707.4	709.4
17.5°	740.6	736.6	724.0	707.4	696.7	691.8	695.8	700.6	703.5
20°	728.8	724.9	707.4	686.9	674.3	671.4	678.2	686.9	689.9
22.5°	713.2	705.4	685.0	660.7	647.0	647.0	656.7	667.5	671.4
25°	688.9	683.0	659.7	631.4	617.8	616.8	628.4	643.1	647.0
27.5°	661.6	653.8	628.4	599.3	584.6	585.7	598.3	612.9	616.8
30°	622.7	612.9	590.4	562.2	548.5	552.5	565.1	575.9	580.8
32.5°	578.7	570.0	549.6	523.2	511.5	515.4	526.2	535.9	539.8
35°	533.0	523.2	505.8	482.4	474.5	478.4	488.2	496.0	497.9
37.5°	481.4	474.5	461.8	443.3	437.5	442.4	450.1	455.0	457.0
40°	433.6	427.8	417.0	403.4	401.4	405.3	413.1	416.1	417.0
42.5°	386.8	381.9	375.1	365.4	365.4	369.3	376.1	378.1	379.1
45°	342.0	339.1	336.2	328.4	330.3	335.2	339.1	342.0	342.0
47.5°	303.0	304.0	300.1	294.3	296.2	301.1	304.0	306.9	306.9
50°	272.9	269.9	266.0	260.1	263.1	267.0	270.9	272.9	273.8
52.5°	237.8	236.8	233.8	227.0	228.9	231.0	234.8	237.8	238.7
55°	212.5	209.5	205.5	197.8	197.8	199.8	201.7	203.6	205.5
57.5°	188.1	185.1	179.3	170.5	169.6	169.6	168.5	170.5	173.4
60°	163.7	162.8	153.9	146.2	143.2	140.3	136.4	137.3	141.3
62.5°	142.2	140.3	132.6	122.8	116.9	112.0	107.1	106.2	110.1
65°	122.8	120.9	112.0	102.3	95.5	86.7	78.9	78.9	81.8
67.5°	105.2	101.4	93.5	82.9	74.0	63.3	55.5	57.5	58.5
70°	87.7	84.8	76.0	65.3	54.6	43.8	38.9	40.0	40.0
72.5°	72.1	68.2	59.5	48.7	38.0	28.3	26.3	25.3	25.3
75°	56.5	52.7	43.8	33.1	23.4	16.6	14.6	14.6	14.6
77.5°	41.0	38.0	30.2	20.4	12.7	7.8	6.8	5.9	5.9
80°	28.3	25.3	18.5	10.7	4.9	3.0	3.0	3.0	3.0
82.5°	16.6	13.6	8.7	4.9	1.9	1.0	1.0	1.0	1.0
85°	7.8	5.9	3.9	1.9	1.0	1.0	1.0	1.0	1.0
87.5°	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
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)