

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: P581793

Luminaire Tested: **HC615D010-HM60525930-61RWWH**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P581793
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-HM60525930-61RWWH
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1366.5 lumens
Efficiency: N/A
Efficacy: 97.6 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

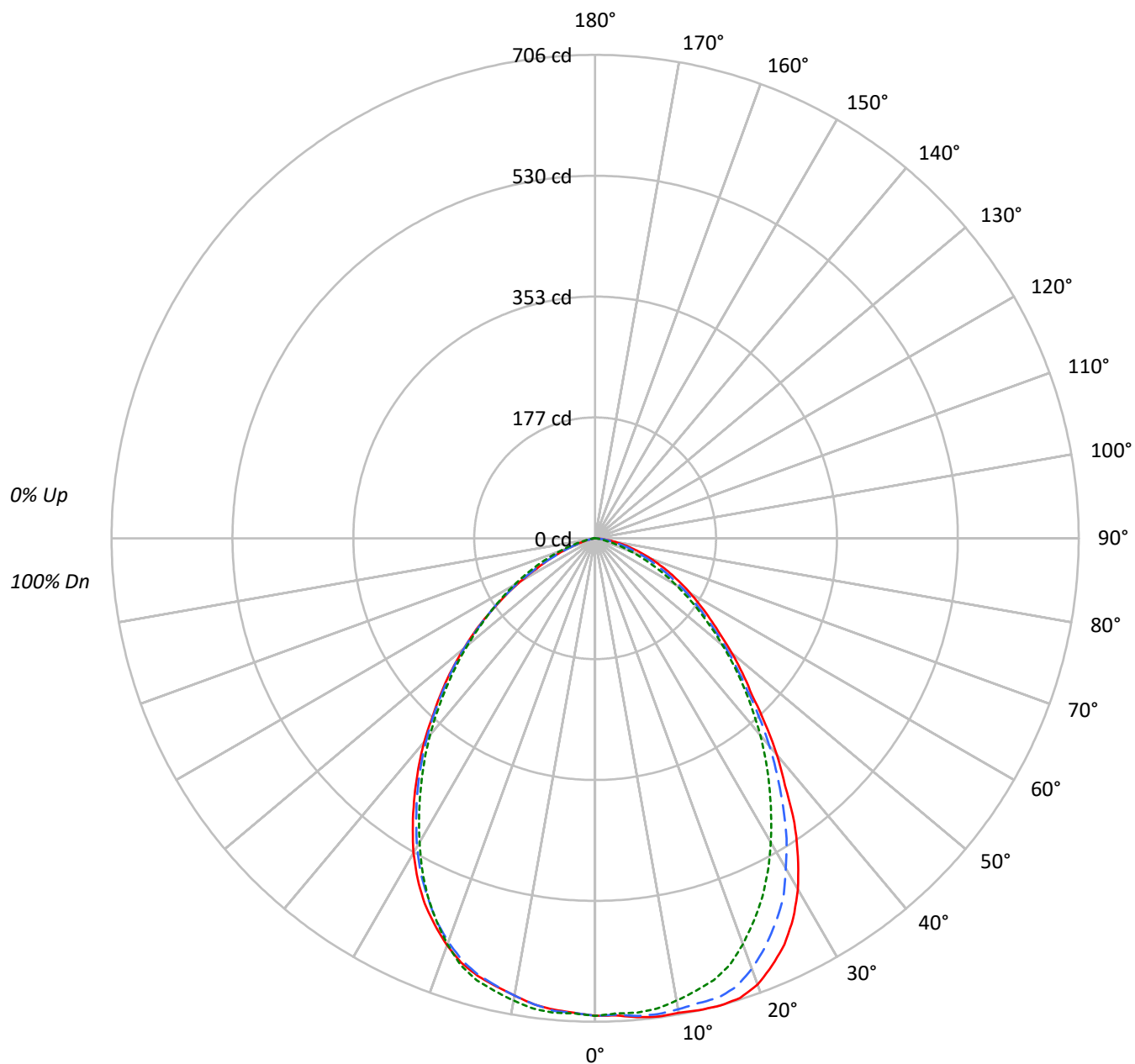
Input Watts (W): 14
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	93	92	90	88		
2	103	96	90	85	100	94	89	84	91	86	83	87	84	81	85	82	79	77		
3	95	86	79	74	93	84	78	73	82	76	72	79	74	70	77	73	69	67		
4	88	78	70	64	86	76	69	64	74	68	63	72	66	62	70	65	61	59		
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	61	55	50	60	54	49	58	53	49	47		
7	71	59	51	45	69	58	50	45	56	50	45	55	49	44	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°	38237	38237	38237
5°	38631	38273	38025
10°	39178	38159	37753
15°	40097	37923	37554
20°	40469	36794	36899
25°	39583	34944	35603
30°	37487	32461	33562
35°	33943	29667	30771
40°	29563	26822	27802
45°	25088	23739	24584
50°	22217	20733	21279
55°	19574	17739	17653
60°	17531	14933	13727
65°	15657	11973	9832
70°	13768	8639	6155
75°	11607	5210	3495
80°	8966	2305	1421
85°	5158	566	566



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.2	4.8
10°-20°	190.3	13.9
20°-30°	275.0	20.1
30°-40°	289.4	21.2
40°-50°	243.3	17.8
50°-60°	170.7	12.5
60°-70°	93.9	6.9
70°-80°	33.3	2.4
80°-90°	4.3	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°	531.5	38.9
0°-40°	820.9	60.1
0°-60°	1234.9	90.4
0°-90°	1366.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1366.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	698	698	698	698	698	
5°	702	700	696	693	691	67
15°	706	695	668	660	662	199
25°	654	622	578	579	589	299
35°	507	478	443	452	460	314
45°	324	314	306	314	317	254
55°	205	194	186	186	185	184
65°	121	108	92	76	76	120
75°	55	44	25	16	16	59
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°	697.5	697.5	697.5	697.5	697.5	697.5	697.5	697.5	697.5
2.5°	697.5	697.5	696.4	696.4	694.6	694.6	693.7	693.7	693.7
5°	702.0	702.0	700.2	697.5	695.5	692.8	692.8	691.9	691.0
7.5°	704.7	703.8	701.1	697.5	692.8	688.3	686.4	687.4	686.4
10°	703.8	702.0	698.4	691.0	685.5	679.1	678.2	677.3	678.2
12.5°	705.6	702.9	695.5	686.4	677.3	670.0	669.1	669.1	670.0
15°	706.5	703.8	694.6	681.0	668.2	660.8	659.9	660.8	661.7
17.5°	703.8	700.2	686.4	668.2	653.5	646.3	646.3	648.1	649.9
20°	693.7	688.3	669.1	647.2	630.7	625.2	627.0	630.7	632.5
22.5°	675.4	669.1	647.2	622.4	605.1	600.5	605.1	609.6	611.5
25°	654.4	647.2	621.5	596.0	577.7	572.2	578.6	585.9	588.6
27.5°	626.1	617.9	594.2	564.9	546.6	543.9	551.2	559.3	561.3
30°	592.2	583.2	556.6	529.3	512.8	511.9	520.1	527.4	530.2
32.5°	551.2	543.0	520.1	492.7	478.1	478.1	486.2	492.7	495.4
35°	507.2	498.2	478.1	455.1	443.3	444.2	452.4	457.1	459.8
37.5°	455.1	452.4	436.9	417.7	409.5	411.3	417.7	421.3	424.1
40°	413.1	405.9	395.8	380.2	374.8	376.6	382.9	386.6	388.5
42.5°	367.4	362.9	354.7	343.7	340.0	342.8	348.2	350.9	350.0
45°	323.6	322.7	314.4	308.0	306.2	309.9	313.5	316.2	317.1
47.5°	291.6	287.9	280.6	276.0	274.2	277.8	281.5	283.3	283.3
50°	260.5	256.9	249.5	244.9	243.1	246.7	249.5	251.4	249.5
52.5°	229.4	225.8	219.4	213.8	212.9	214.7	215.8	216.7	218.5
55°	204.8	201.1	193.7	187.4	185.6	186.5	185.6	185.6	184.7
57.5°	181.0	177.3	170.0	162.6	159.9	159.0	156.3	155.4	154.5
60°	159.9	155.4	148.1	139.8	136.2	132.6	127.9	125.2	125.2
62.5°	139.8	135.3	127.0	119.7	114.3	107.8	100.6	96.9	96.9
65°	120.7	117.0	107.8	99.7	92.3	84.1	75.8	74.0	75.8
67.5°	102.4	98.7	89.6	81.4	72.2	62.2	54.8	54.8	56.6
70°	85.9	82.3	74.0	64.0	53.9	43.9	38.4	38.4	38.4
72.5°	70.4	66.7	57.5	48.5	38.4	28.4	25.5	26.6	25.5
75°	54.8	52.1	43.9	33.8	24.6	17.4	16.5	15.5	16.5
77.5°	41.1	38.4	31.1	21.9	13.7	10.1	9.2	9.2	9.2
80°	28.4	25.5	20.1	12.8	7.3	4.5	4.5	4.5	4.5
82.5°	17.4	14.6	11.0	6.4	2.7	2.7	2.7	2.7	2.7
85°	8.2	6.4	4.5	1.8	0.9	0.9	0.9	0.9	0.9
87.5°	1.8	1.8	0.9	0.9	0.0	0.9	0.9	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)