

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: P582927

Luminaire Tested: **HC605D010-HM60525927-61RWWH**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582927
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: HC605D010-HM60525927-61RWWH
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 560.4 lumens
Efficiency: N/A
Efficacy: 93.4 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

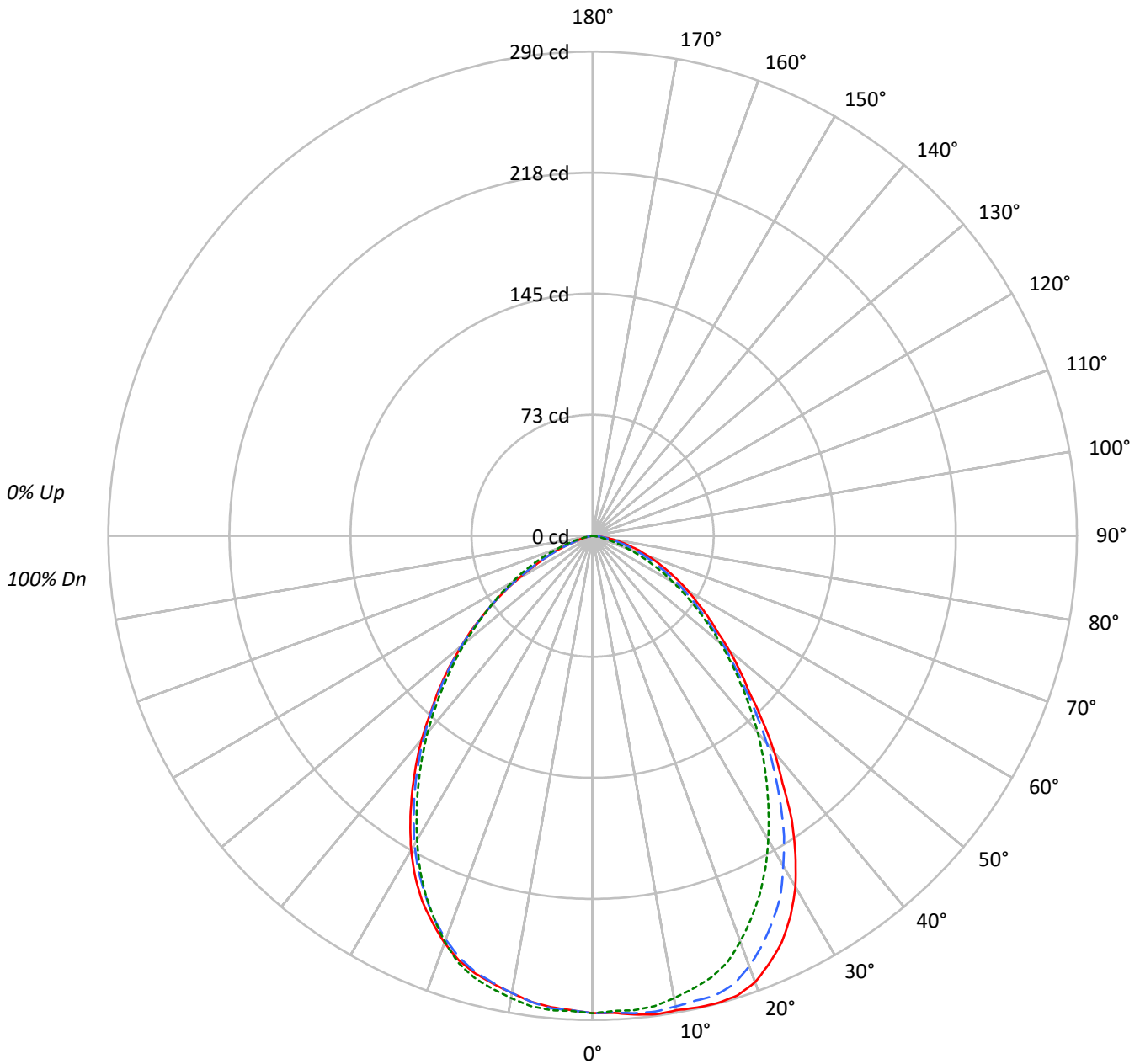
Input Watts (W): 6
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			
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°	15679	15679	15679
5°	15843	15694	15595
10°	16065	15648	15481
15°	16442	15551	15403
20°	16597	15092	15133
25°	16235	14323	14602
30°	15382	13312	13762
35°	13920	12167	12622
40°	12123	10999	11400
45°	10288	9730	10086
50°	9108	8503	8733
55°	8028	7264	7235
60°	7203	6118	5625
65°	6421	4916	4034
70°	5658	3542	2516
75°	4766	2160	1440
80°	3662	979	600
85°	2139	189	189



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	27.1	4.8
10°-20°	78.0	13.9
20°-30°	112.8	20.1
30°-40°	118.7	21.2
40°-50°	99.8	17.8
50°-60°	70.0	12.5
60°-70°	38.5	6.9
70°-80°	13.7	2.4
80°-90°	1.8	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°	218.0	38.9
0°-40°	336.6	60.1
0°-60°	506.4	90.4
0°-90°	560.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	560.4	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	286	286	286	286	286	
5°	288	287	285	284	283	28
15°	290	285	274	271	271	82
25°	268	255	237	237	241	123
35°	208	196	182	186	189	129
45°	133	129	126	129	130	104
55°	84	79	76	76	76	76
65°	50	44	38	31	31	49
75°	22	18	10	7	7	24
85°	3	2	0	0	0	5
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°	286.0	286.0	286.0	286.0	286.0	286.0	286.0	286.0	286.0
2.5°	286.0	286.0	285.7	285.7	284.9	284.9	284.5	284.5	284.5
5°	287.9	287.9	287.1	286.0	285.2	284.1	284.1	283.7	283.4
7.5°	289.1	288.6	287.5	286.0	284.1	282.3	281.5	281.9	281.5
10°	288.6	287.9	286.3	283.4	281.1	278.5	278.1	277.8	278.1
12.5°	289.4	288.3	285.2	281.5	277.8	274.8	274.4	274.4	274.8
15°	289.7	288.6	284.9	279.2	274.0	271.0	270.6	271.0	271.4
17.5°	288.6	287.1	281.5	274.0	268.0	265.0	265.0	265.8	266.6
20°	284.5	282.3	274.4	265.4	258.7	256.4	257.2	258.7	259.4
22.5°	277.0	274.4	265.4	255.3	248.1	246.2	248.1	250.1	250.7
25°	268.4	265.4	254.9	244.4	236.8	234.7	237.3	240.2	241.4
27.5°	256.7	253.3	243.6	231.6	224.2	223.1	226.0	229.4	230.2
30°	243.0	239.1	228.3	217.1	210.3	210.0	213.3	216.3	217.4
32.5°	226.0	222.6	213.3	202.0	196.1	196.1	199.4	202.0	203.2
35°	208.0	204.3	196.1	186.7	181.8	182.2	185.5	187.5	188.6
37.5°	186.7	185.5	179.2	171.3	167.9	168.7	171.3	172.8	173.9
40°	169.4	166.4	162.3	155.9	153.7	154.5	157.1	158.5	159.3
42.5°	150.7	148.8	145.4	140.9	139.4	140.6	142.8	144.0	143.6
45°	132.7	132.3	128.9	126.3	125.5	127.1	128.6	129.7	130.1
47.5°	119.6	118.1	115.0	113.2	112.4	113.9	115.5	116.2	116.2
50°	106.8	105.3	102.4	100.5	99.7	101.2	102.4	103.1	102.4
52.5°	94.1	92.5	89.9	87.7	87.3	88.1	88.5	88.8	89.6
55°	84.0	82.5	79.4	76.8	76.0	76.5	76.0	76.0	75.7
57.5°	74.2	72.8	69.7	66.7	65.7	65.2	64.1	63.7	63.4
60°	65.7	63.7	60.7	57.4	55.8	54.4	52.4	51.3	51.3
62.5°	57.4	55.5	52.1	49.2	46.9	44.2	41.2	39.8	39.8
65°	49.5	48.0	44.2	40.9	37.9	34.5	31.1	30.4	31.1
67.5°	42.0	40.5	36.7	33.3	29.6	25.5	22.5	22.5	23.3
70°	35.3	33.8	30.4	26.2	22.1	18.0	15.7	15.7	15.7
72.5°	28.8	27.3	23.6	19.9	15.7	11.6	10.5	10.8	10.5
75°	22.5	21.4	18.0	13.9	10.2	7.1	6.8	6.3	6.8
77.5°	16.8	15.7	12.8	9.0	5.6	4.1	3.7	3.7	3.7
80°	11.6	10.5	8.2	5.2	3.1	1.9	1.9	1.9	1.9
82.5°	7.1	6.0	4.5	2.6	1.1	1.1	1.1	1.1	1.1
85°	3.4	2.6	1.9	0.8	0.3	0.3	0.3	0.3	0.3
87.5°	0.8	0.8	0.3	0.3	0.0	0.3	0.3	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)