

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: P592994

Luminaire Tested: **HC605D010-HM60525850-61RWWH**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P592994
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-HM60525850-61RWWH
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 748.5 lumens
Efficiency: N/A
Efficacy: 124.7 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

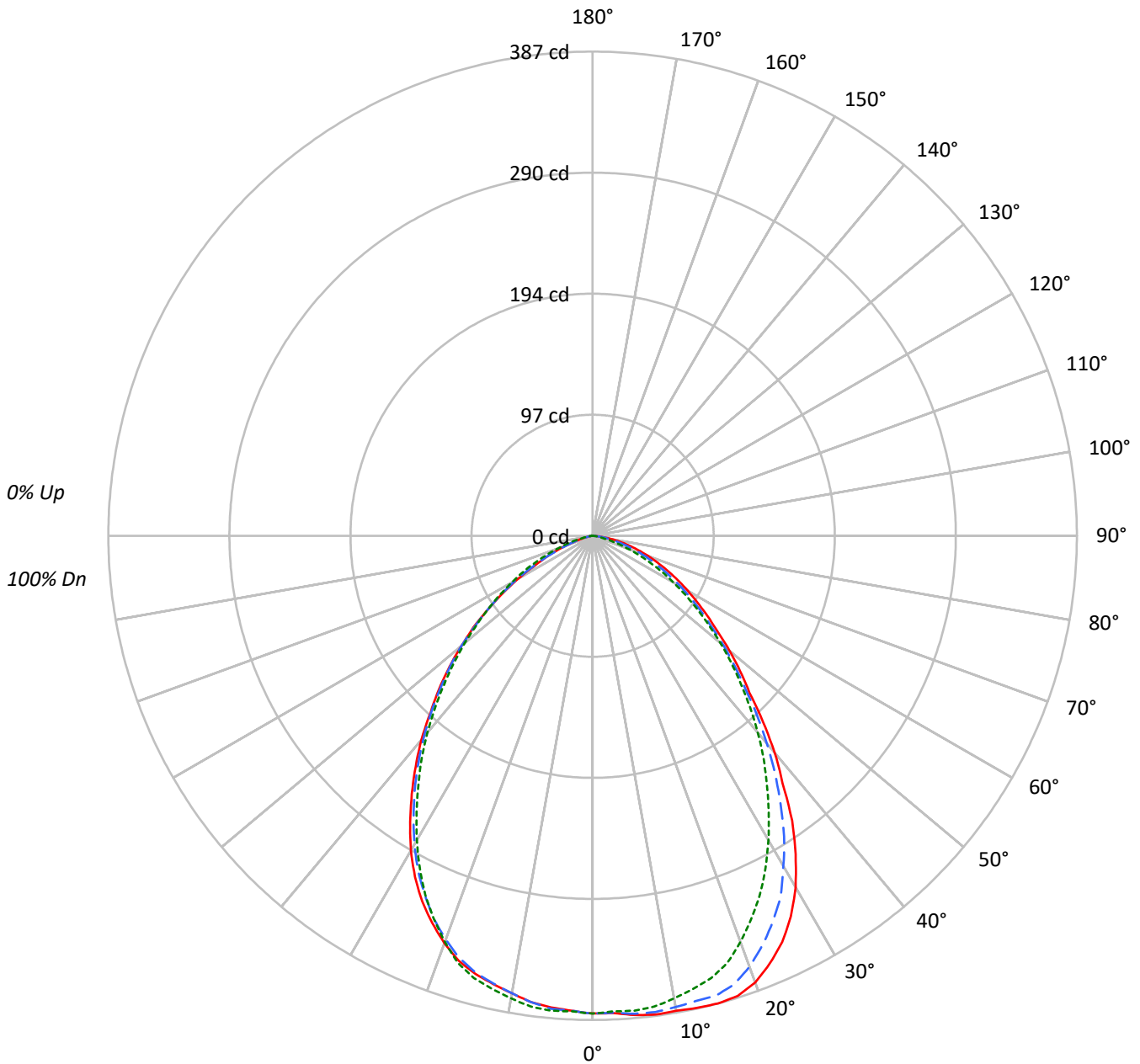
Input Watts (W): 6
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
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																			
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°	20936	20936	20936
5°	21159	20966	20823
10°	21465	20903	20674
15°	21964	20772	20573
20°	22169	20150	20214
25°	21679	19138	19501
30°	20535	17781	18383
35°	18598	16249	16858
40°	16195	14692	15229
45°	13738	13001	13467
50°	12170	11360	11658
55°	10714	9711	9663
60°	9604	8179	7521
65°	8574	6551	5396
70°	7533	4728	3366
75°	6375	2881	1906
80°	4893	1263	789
85°	2830	314	314



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	36.3	4.8
10°-20°	104.2	13.9
20°-30°	150.6	20.1
30°-40°	158.5	21.2
40°-50°	133.2	17.8
50°-60°	93.5	12.5
60°-70°	51.4	6.9
70°-80°	18.3	2.4
80°-90°	2.4	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°	291.1	38.9
0°-40°	449.6	60.1
0°-60°	676.4	90.4
0°-90°	748.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	748.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	382	382	382	382	382	
5°	384	384	381	380	378	37
15°	387	380	366	362	362	109
25°	358	340	316	317	322	164
35°	278	262	243	248	252	172
45°	177	172	168	172	174	139
55°	112	106	102	102	101	101
65°	66	59	50	42	42	66
75°	30	24	14	9	9	32
85°	4	2	0	0	0	6
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°	381.9	381.9	381.9	381.9	381.9	381.9	381.9	381.9	381.9
2.5°	381.9	381.9	381.5	381.5	380.5	380.5	380.0	380.0	380.0
5°	384.5	384.5	383.5	381.9	381.0	379.5	379.5	379.0	378.4
7.5°	386.0	385.6	384.0	381.9	379.5	377.0	376.0	376.5	376.0
10°	385.6	384.5	382.5	378.4	375.5	372.0	371.4	371.0	371.4
12.5°	386.5	385.0	381.0	376.0	371.0	367.0	366.5	366.5	367.0
15°	387.0	385.6	380.5	373.0	366.0	361.9	361.5	361.9	362.5
17.5°	385.6	383.5	376.0	366.0	358.0	353.9	353.9	354.9	356.0
20°	380.0	377.0	366.5	354.5	345.4	342.4	343.4	345.4	346.5
22.5°	370.0	366.5	354.5	340.9	331.4	328.9	331.4	333.9	334.9
25°	358.4	354.5	340.5	326.5	316.4	313.5	317.0	320.9	322.4
27.5°	343.0	338.4	325.4	309.4	299.3	297.9	301.9	306.3	307.4
30°	324.4	319.5	304.9	289.8	280.9	280.4	284.9	288.8	290.4
32.5°	301.9	297.4	284.9	269.8	261.8	261.8	266.3	269.8	271.3
35°	277.9	272.9	261.8	249.3	242.8	243.3	247.8	250.3	251.9
37.5°	249.3	247.8	239.3	228.8	224.3	225.3	228.8	230.7	232.3
40°	226.3	222.3	216.7	208.3	205.3	206.2	209.7	211.8	212.8
42.5°	201.3	198.8	194.2	188.3	186.2	187.7	190.7	192.2	191.8
45°	177.2	176.7	172.2	168.7	167.7	169.7	171.8	173.2	173.7
47.5°	159.7	157.7	153.7	151.2	150.2	152.2	154.2	155.1	155.1
50°	142.7	140.7	136.7	134.1	133.2	135.1	136.7	137.6	136.7
52.5°	125.7	123.6	120.1	117.2	116.6	117.6	118.2	118.6	119.7
55°	112.1	110.2	106.1	102.6	101.6	102.2	101.6	101.6	101.1
57.5°	99.1	97.2	93.1	89.2	87.6	87.1	85.7	85.1	84.6
60°	87.6	85.1	81.1	76.6	74.6	72.5	70.1	68.6	68.6
62.5°	76.6	74.1	69.6	65.5	62.6	59.1	55.0	53.1	53.1
65°	66.1	64.1	59.1	54.6	50.5	46.1	41.6	40.6	41.6
67.5°	56.0	54.0	49.0	44.5	39.6	34.0	30.1	30.1	31.1
70°	47.0	45.1	40.6	35.0	29.5	24.1	21.0	21.0	21.0
72.5°	38.5	36.5	31.5	26.6	21.0	15.5	14.0	14.5	14.0
75°	30.1	28.6	24.1	18.5	13.6	9.5	9.0	8.5	9.0
77.5°	22.5	21.0	17.1	12.0	7.5	5.5	5.0	5.0	5.0
80°	15.5	14.0	11.0	7.0	4.0	2.5	2.5	2.5	2.5
82.5°	9.5	8.0	6.0	3.5	1.5	1.5	1.5	1.5	1.5
85°	4.5	3.5	2.5	1.0	0.5	0.5	0.5	0.5	0.5
87.5°	1.0	1.0	0.5	0.5	0.0	0.5	0.5	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)