

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: P582931

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

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582931
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-9)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC605D010-HM60525927-61WDW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 547.4 lumens
Efficiency: N/A
Efficacy: 91.2 lumens/watt
Spacing Criteria (0/90/45): 1.11 / 1.11 / 1.09
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

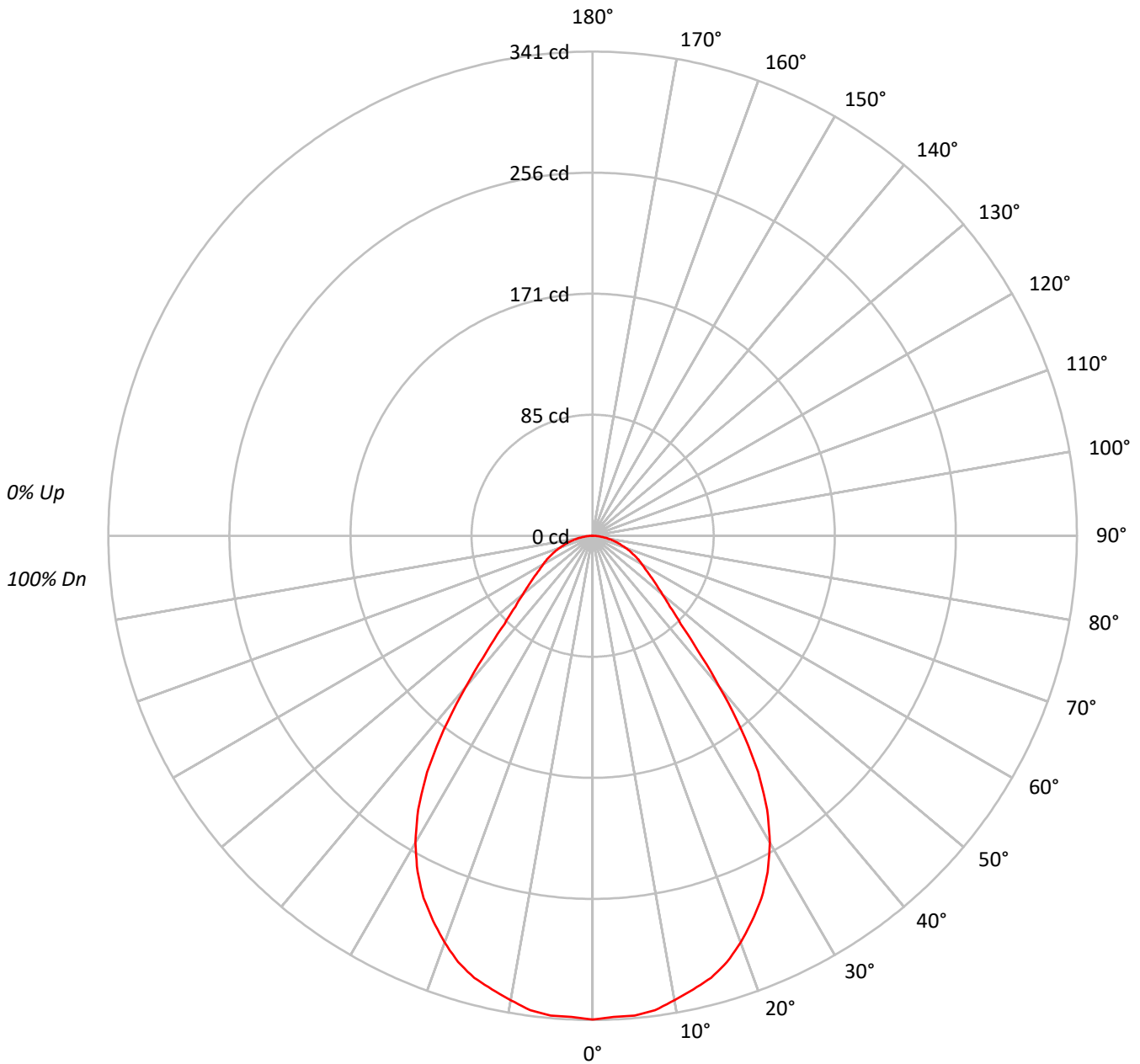
Input Watts (W): 6
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			100
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	94	92	90	89			89
2	103	97	91	87	101	95	90	86	91	87	84	88	85	82	85	83	80	78			78
3	96	87	81	76	94	86	80	75	83	78	74	81	76	72	78	74	71	69			69
4	89	80	72	67	87	78	72	66	76	70	66	74	69	65	72	67	64	62			62
5	84	73	65	60	82	72	65	59	70	64	59	68	63	58	66	61	58	56			56
6	78	67	59	54	76	66	59	54	64	58	53	63	57	53	61	56	52	51			51
7	73	62	54	49	72	61	54	49	60	53	48	58	52	48	57	52	48	46			46
8	69	57	50	45	68	57	50	45	55	49	44	54	48	44	53	48	44	42			42
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	44	41	39			39
10	61	50	43	38	60	49	42	38	48	42	38	47	42	38	47	41	38	36			36

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	18677
5°	18666
10°	18487
15°	18292
20°	17782
25°	17027
30°	15800
35°	13599
40°	9926
45°	6799
50°	5467
55°	4760
60°	4397
65°	4177
70°	3911
75°	3664
80°	3315
85°	2830



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	32.2	5.9
10°-20°	90.5	16.5
20°-30°	128.8	23.5
30°-40°	124.0	22.6
40°-50°	71.3	13.0
50°-60°	45.2	8.3
60°-70°	32.0	5.8
70°-80°	18.3	3.3
80°-90°	5.2	1.0
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°	251.4	45.9
0°-40°	375.4	68.6
0°-60°	491.9	89.9
0°-90°	547.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	547.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	341	
5°	339	32
15°	322	91
25°	282	129
35°	203	124
45°	88	71
55°	50	45
65°	32	32
75°	17	18
85°	4	5
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	340.7
2.5°	339.2
5°	339.2
7.5°	337.0
10°	332.1
12.5°	327.2
15°	322.3
17.5°	314.8
20°	304.8
22.5°	293.5
25°	281.5
27.5°	266.9
30°	249.6
32.5°	228.6
35°	203.2
37.5°	172.0
40°	138.7
42.5°	109.5
45°	87.7
47.5°	73.8
50°	64.1
52.5°	56.3
55°	49.8
57.5°	44.2
60°	40.1
62.5°	36.4
65°	32.2
67.5°	28.5
70°	24.4
72.5°	20.6
75°	17.3
77.5°	13.9
80°	10.5
82.5°	7.5
85°	4.5
87.5°	1.9
90°	0.0



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— 0°-180°







(END OF REPORT)