

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: P593009

Luminaire Tested: **HC605D010-HM60525950-61PSMDW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P593009
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-12)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC605D010-HM60525950-61PSMDW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" PLASTIC TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 617.7 lumens
Efficiency: N/A
Efficacy: 102.9 lumens/watt
Spacing Criteria (0/90/45): 1.09 / 1.09 / 1.04
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

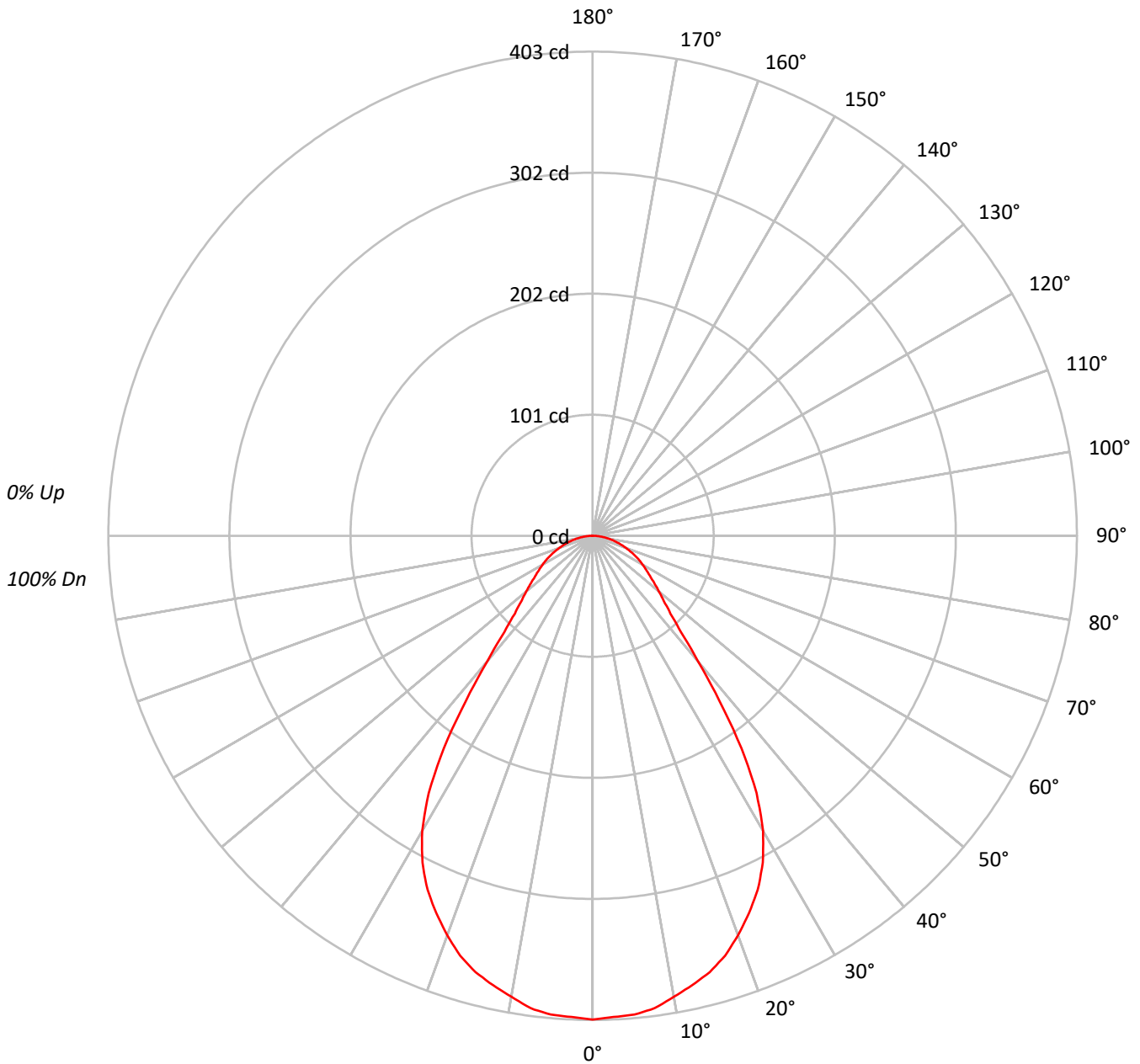
Input Watts (W): 6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			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	93	92	90	88			88
2	103	96	91	86	101	95	90	85	91	87	83	88	85	82	85	82	80	78			78
3	96	87	81	75	94	86	80	75	83	78	73	80	76	72	78	74	71	69			69
4	89	80	72	67	87	78	72	66	76	70	65	74	69	65	72	67	64	62			62
5	84	73	65	60	82	72	65	59	70	64	59	68	63	58	66	62	58	56			56
6	78	67	59	54	77	66	59	54	64	58	53	63	57	53	61	56	53	51			51
7	73	62	54	49	72	61	54	49	60	53	49	58	53	48	57	52	48	46			46
8	69	57	50	45	68	57	50	45	56	49	45	54	49	44	53	48	44	43			43
9	65	53	46	41	64	53	46	41	52	46	41	51	45	41	50	45	41	39			39
10	62	50	43	38	60	49	43	38	49	42	38	48	42	38	47	42	38	36			36

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	22076
5°	22017
10°	21687
15°	21345
20°	20640
25°	19664
30°	17952
35°	14449
40°	9747
45°	7102
50°	6141
55°	5553
60°	5263
65°	4981
70°	4696
75°	4427
80°	4136
85°	3837



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	37.9	6.1
10°-20°	105.6	17.1
20°-30°	148.4	24.0
30°-40°	132.1	21.4
40°-50°	73.8	11.9
50°-60°	52.6	8.5
60°-70°	38.3	6.2
70°-80°	22.2	3.6
80°-90°	6.9	1.1
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°	291.9	47.3
0°-40°	423.9	68.6
0°-60°	550.3	89.1
0°-90°	617.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	617.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	403	
5°	400	38
15°	376	106
25°	325	148
35°	216	132
45°	92	74
55°	58	53
65°	38	38
75°	21	22
85°	6	7
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	402.7
2.5°	400.9
5°	400.1
7.5°	396.6
10°	389.6
12.5°	383.1
15°	376.1
17.5°	366.5
20°	353.8
22.5°	339.9
25°	325.1
27.5°	306.7
30°	283.6
32.5°	253.9
35°	215.9
37.5°	173.2
40°	136.2
42.5°	108.6
45°	91.6
47.5°	80.2
50°	72.0
52.5°	64.5
55°	58.1
57.5°	52.8
60°	48.0
62.5°	43.6
65°	38.4
67.5°	34.0
70°	29.3
72.5°	24.9
75°	20.9
77.5°	17.1
80°	13.1
82.5°	9.6
85°	6.1
87.5°	3.1
90°	0.0



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— 0°-180°







(END OF REPORT)