

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: P582871

Luminaire Tested: **HC605D010-HM60525830-61PSMDW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582871
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-HM60525830-61PSMDW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" PLASTIC TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 676.0 lumens
Efficiency: N/A
Efficacy: 112.7 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

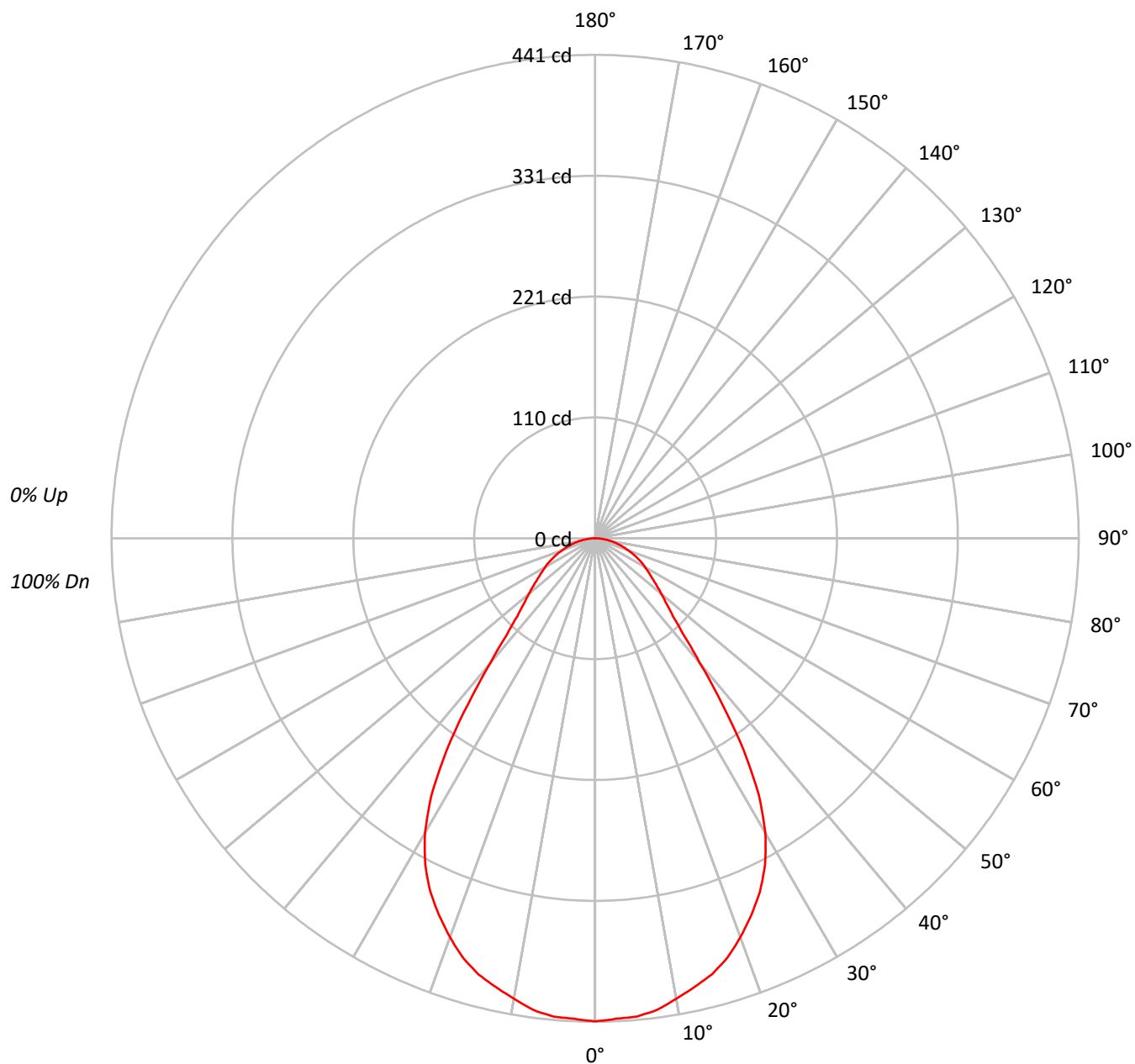
Input Watts (W): 6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	24159
5°	24097
10°	23741
15°	23366
20°	22594
25°	21515
30°	19649
35°	15821
40°	10656
45°	7768
50°	6720
55°	6069
60°	5756
65°	5448
70°	5129
75°	4850
80°	4546
85°	4214



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	41.4	6.1
10°-20°	115.6	17.1
20°-30°	162.4	24.0
30°-40°	144.6	21.4
40°-50°	80.8	11.9
50°-60°	57.5	8.5
60°-70°	41.9	6.2
70°-80°	24.2	3.6
80°-90°	7.6	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°	319.4	47.3
0°-40°	464.0	68.6
0°-60°	602.3	89.1
0°-90°	676.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	676.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	441	
5°	438	41
15°	412	116
25°	356	162
35°	236	145
45°	100	81
55°	64	58
65°	42	42
75°	23	24
85°	7	8
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	440.7
2.5°	438.8
5°	437.9
7.5°	434.0
10°	426.5
12.5°	419.2
15°	411.7
17.5°	401.2
20°	387.3
22.5°	372.0
25°	355.7
27.5°	335.7
30°	310.4
32.5°	277.9
35°	236.4
37.5°	189.6
40°	148.9
42.5°	118.9
45°	100.2
47.5°	87.9
50°	78.8
52.5°	70.6
55°	63.5
57.5°	57.7
60°	52.5
62.5°	47.8
65°	42.0
67.5°	37.3
70°	32.0
72.5°	27.2
75°	22.9
77.5°	18.6
80°	14.4
82.5°	10.5
85°	6.7
87.5°	3.4
90°	0.0



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— 0°-180°







(END OF REPORT)