

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: P582925

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

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582925
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-HM60525927-61PSMDW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" PLASTIC TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 530.8 lumens
Efficiency: N/A
Efficacy: 88.5 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

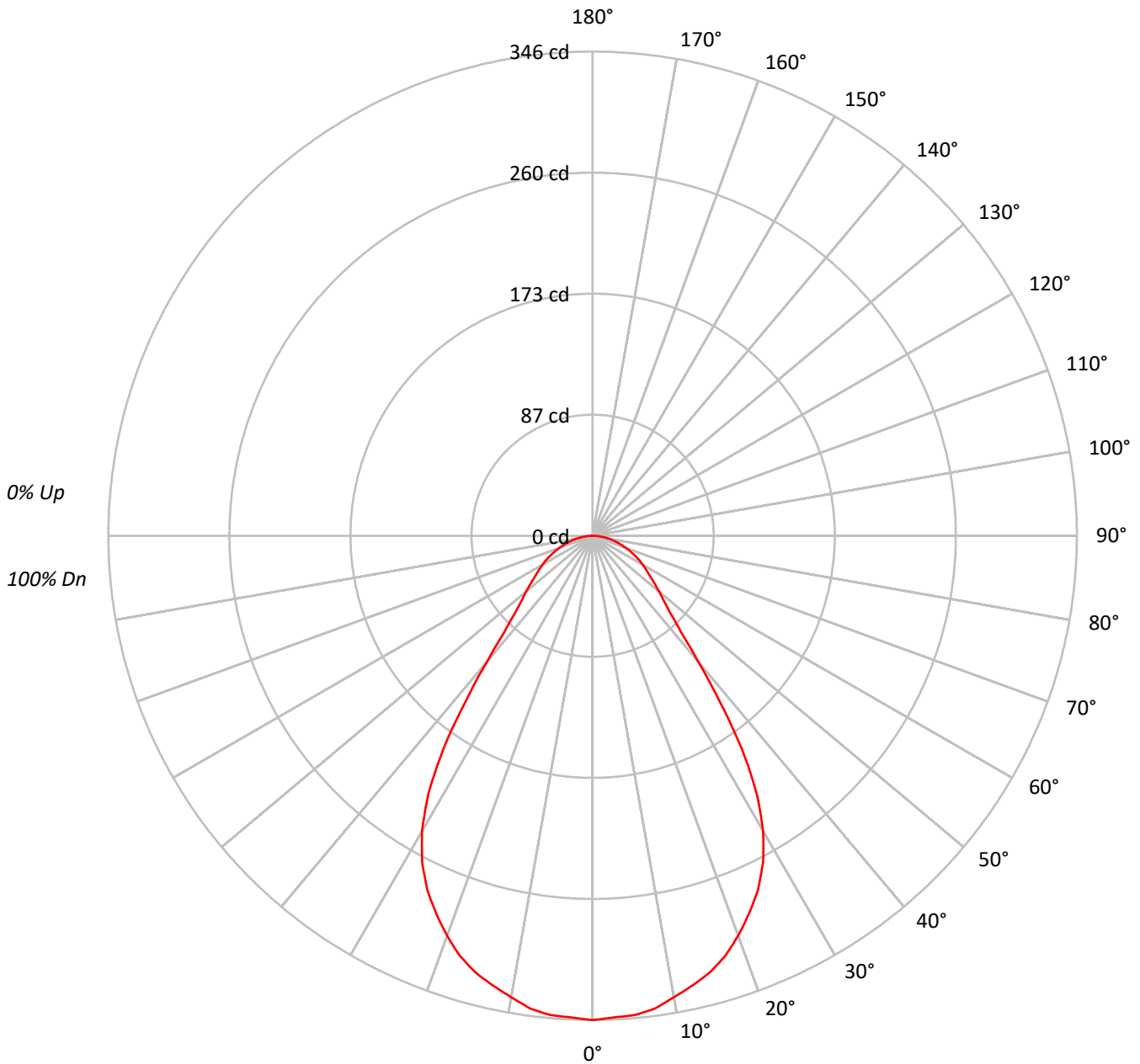
Input Watts (W): 6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			
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°	18973
5°	18925
10°	18637
15°	18343
20°	17741
25°	16894
30°	15426
35°	12428
40°	8373
45°	6109
50°	5279
55°	4760
60°	4517
65°	4281
70°	4023
75°	3813
80°	3567
85°	3271



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	32.5	6.1
10°-20°	90.8	17.1
20°-30°	127.5	24.0
30°-40°	113.5	21.4
40°-50°	63.4	12.0
50°-60°	45.2	8.5
60°-70°	32.9	6.2
70°-80°	19.0	3.6
80°-90°	5.9	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°	250.8	47.3
0°-40°	364.3	68.6
0°-60°	473.0	89.1
0°-90°	530.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	530.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	346	
5°	344	33
15°	323	91
25°	279	128
35°	186	114
45°	79	63
55°	50	45
65°	33	33
75°	18	19
85°	5	6
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	346.1
2.5°	344.5
5°	343.9
7.5°	340.8
10°	334.8
12.5°	329.2
15°	323.2
17.5°	314.9
20°	304.1
22.5°	292.1
25°	279.3
27.5°	263.6
30°	243.7
32.5°	218.2
35°	185.7
37.5°	148.8
40°	117.0
42.5°	93.3
45°	78.8
47.5°	69.0
50°	61.9
52.5°	55.5
55°	49.8
57.5°	45.4
60°	41.2
62.5°	37.5
65°	33.0
67.5°	29.3
70°	25.1
72.5°	21.4
75°	18.0
77.5°	14.6
80°	11.3
82.5°	8.2
85°	5.2
87.5°	2.6
90°	0.0



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— 0°-180°







(END OF REPORT)