

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: P582853

Luminaire Tested: **HC605D010-HM60525827-61PSMDW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582853
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-HM60525827-61PSMDW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" PLASTIC TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 628.5 lumens
Efficiency: N/A
Efficacy: 104.8 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

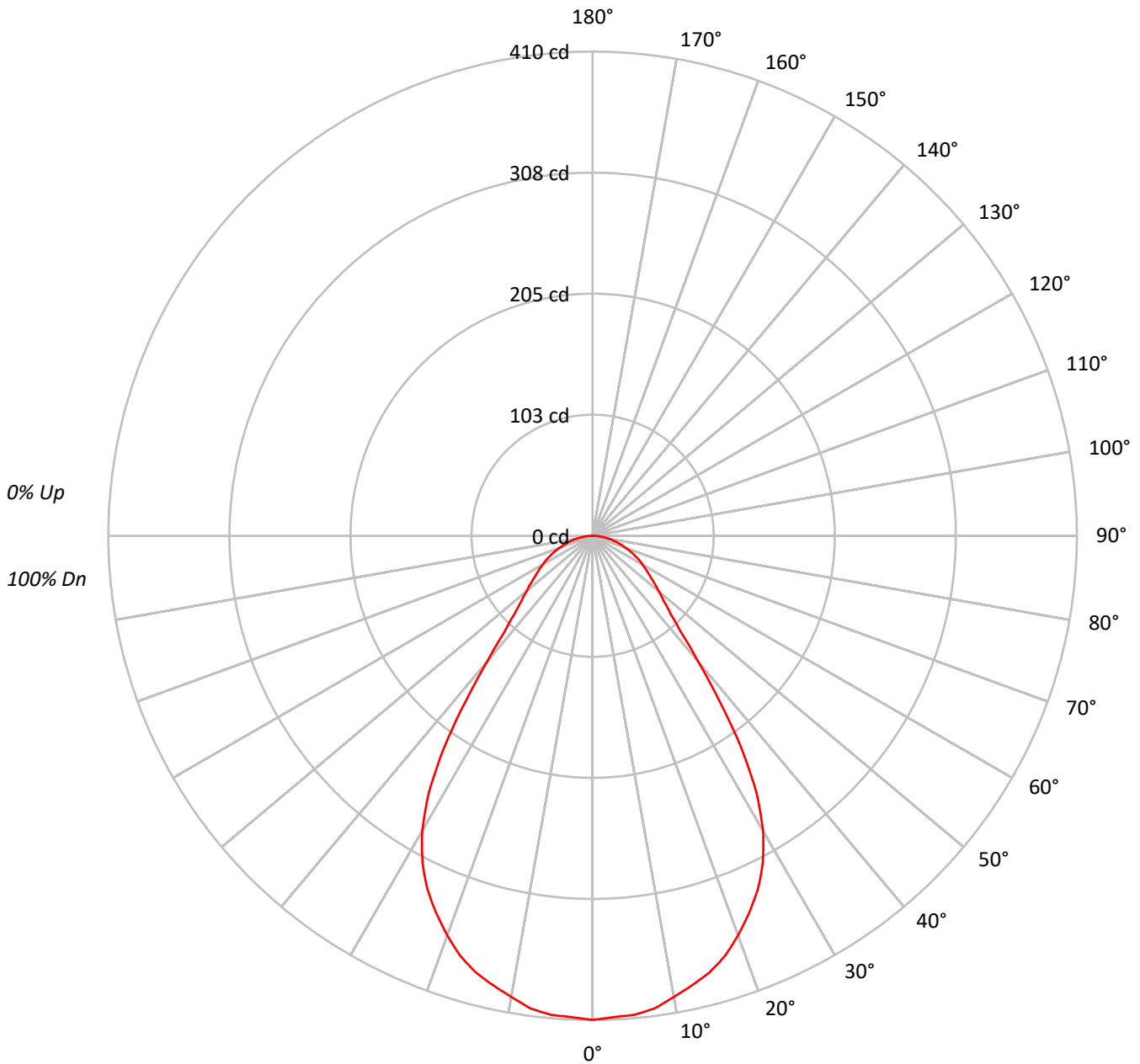
Input Watts (W): 6
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			
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°	22471
5°	22403
10°	22072
15°	21720
20°	21002
25°	20009
30°	18269
35°	14710
40°	9911
45°	7226
50°	6243
55°	5649
60°	5350
65°	5072
70°	4760
75°	4533
80°	4199
85°	3900



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	38.5	6.1
10°-20°	107.5	17.1
20°-30°	151.0	24.0
30°-40°	134.4	21.4
40°-50°	75.1	11.9
50°-60°	53.5	8.5
60°-70°	38.9	6.2
70°-80°	22.6	3.6
80°-90°	7.0	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°	297.0	47.3
0°-40°	431.4	68.6
0°-60°	560.0	89.1
0°-90°	628.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	628.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	410	
5°	407	39
15°	383	107
25°	331	151
35°	220	134
45°	93	75
55°	59	54
65°	39	39
75°	21	23
85°	6	7
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	409.9
2.5°	408.0
5°	407.1
7.5°	403.6
10°	396.5
12.5°	389.8
15°	382.7
17.5°	372.9
20°	360.0
22.5°	345.9
25°	330.8
27.5°	312.1
30°	288.6
32.5°	258.4
35°	219.8
37.5°	176.3
40°	138.5
42.5°	110.5
45°	93.2
47.5°	81.7
50°	73.2
52.5°	65.8
55°	59.1
57.5°	53.7
60°	48.8
62.5°	44.4
65°	39.1
67.5°	34.6
70°	29.7
72.5°	25.3
75°	21.4
77.5°	17.3
80°	13.3
82.5°	9.7
85°	6.2
87.5°	3.2
90°	0.0



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— 0°-180°







(END OF REPORT)