

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: P582888

Luminaire Tested: **HC605D010-HM60525835-61NDW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582888
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-3)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC605D010-HM60525835-61NDW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" NARROW DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 660.1 lumens
Efficiency: N/A
Efficacy: 110.0 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.06 / 1.03
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

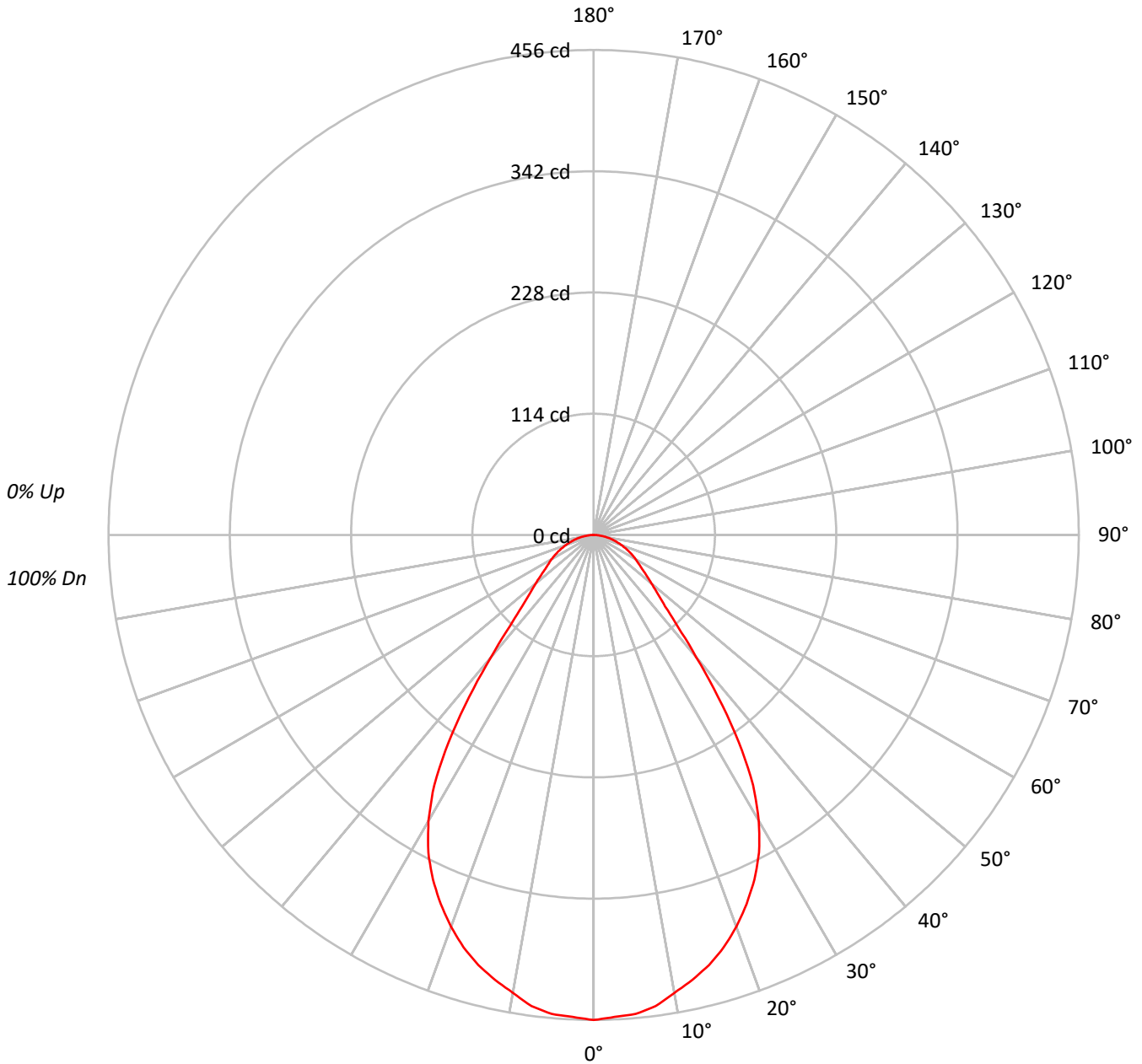
Input Watts (W): 6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	104	101	109	105	102	100	101	99	96	97	95	94	94	92	91	89			89
2	104	97	92	87	101	95	90	86	92	88	84	89	85	83	86	83	81	79			79
3	97	88	82	77	94	87	81	76	84	79	75	81	77	73	79	75	72	70			70
4	90	81	73	68	88	79	73	68	77	71	67	75	70	66	73	69	65	63			63
5	84	74	67	61	83	73	66	61	71	65	60	69	64	60	67	63	59	57			57
6	79	68	61	55	77	67	60	55	66	59	55	64	59	54	63	58	54	52			52
7	74	63	56	50	73	62	55	50	61	55	50	60	54	50	58	53	49	48			48
8	70	59	51	46	69	58	51	46	57	50	46	56	50	46	54	49	46	44			44
9	66	55	48	43	65	54	47	43	53	47	42	52	46	42	51	46	42	41			41
10	63	51	44	40	61	51	44	40	50	44	39	49	43	39	48	43	39	38			38

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	25003
5°	24884
10°	24337
15°	23769
20°	22874
25°	21630
30°	19655
35°	15914
40°	10734
45°	7373
50°	6047
55°	5295
60°	5011
65°	4722
70°	4440
75°	4215
80°	3820
85°	3334



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.7	6.5
10°-20°	117.6	17.8
20°-30°	163.4	24.7
30°-40°	145.5	22.0
40°-50°	77.2	11.7
50°-60°	50.5	7.7
60°-70°	36.2	5.5
70°-80°	21.0	3.2
80°-90°	6.1	0.9
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°	323.7	49.0
0°-40°	469.1	71.1
0°-60°	596.9	90.4
0°-90°	660.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	660.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	456	
5°	452	43
15°	419	118
25°	358	163
35°	238	145
45°	95	77
55°	55	51
65°	36	36
75°	20	21
85°	5	6
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	456.1
2.5°	453.7
5°	452.2
7.5°	446.9
10°	437.2
12.5°	428.5
15°	418.8
17.5°	406.6
20°	392.1
22.5°	375.6
25°	357.6
27.5°	336.7
30°	310.5
32.5°	279.0
35°	237.8
37.5°	192.1
40°	150.0
42.5°	116.5
45°	95.1
47.5°	81.0
50°	70.9
52.5°	62.6
55°	55.4
57.5°	49.9
60°	45.7
62.5°	41.2
65°	36.4
67.5°	32.0
70°	27.7
72.5°	23.7
75°	19.9
77.5°	16.0
80°	12.1
82.5°	8.7
85°	5.3
87.5°	2.4
90°	0.0



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— 0°-180°







(END OF REPORT)