

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: P582817

Luminaire Tested: **HC650D010-HM64560935-61PSMDW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582817
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: HC650D010-HM64560935-61PSMDW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" PLASTIC TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4595.6 lumens
Efficiency: N/A
Efficacy: 95.7 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

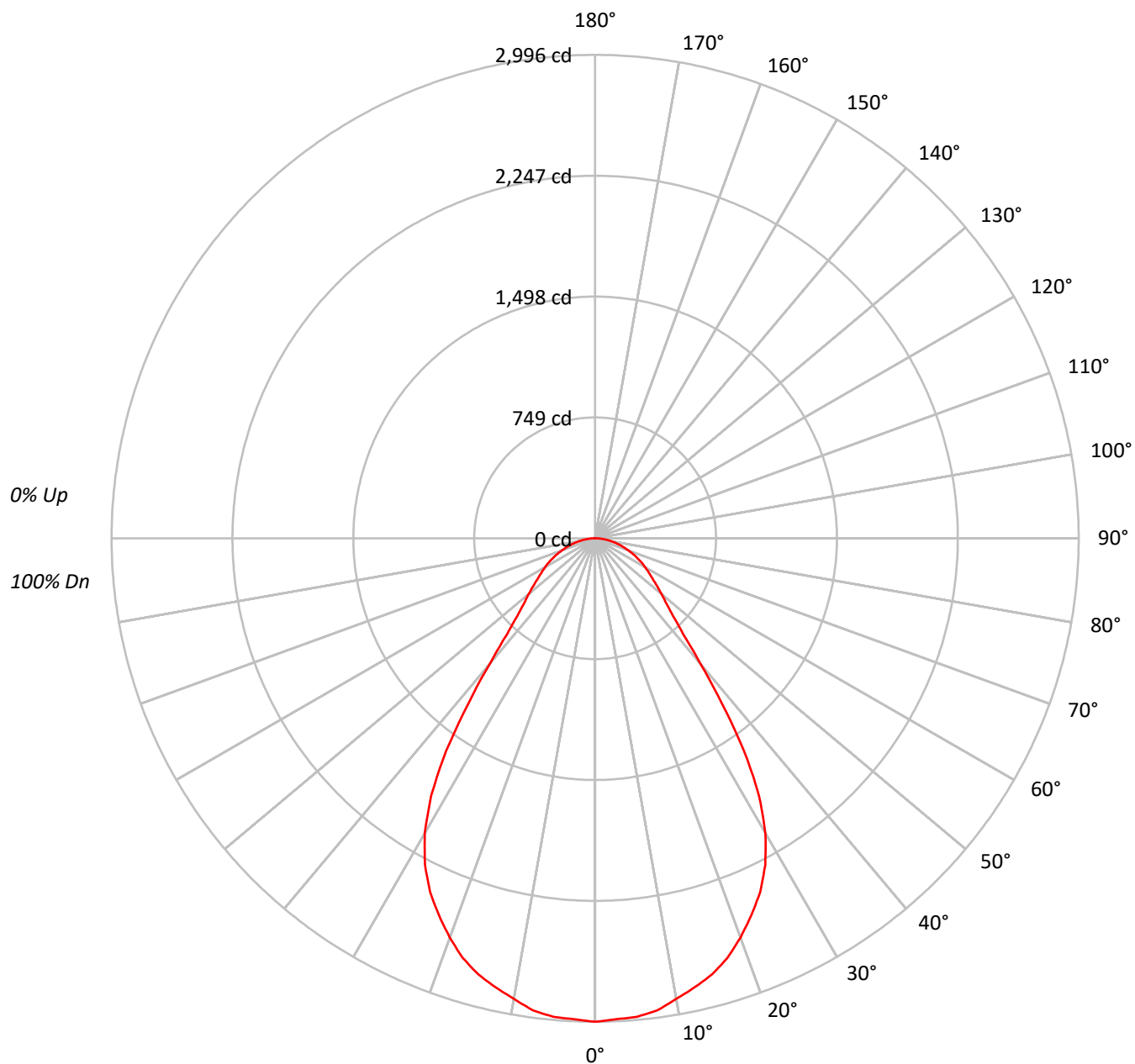
Input Watts (W): 48
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P582817

CATALOG NUMBER: HC650D010-HM64560935-61PSMDW

Luminous Intensity Polar Plot





TEST NUMBER: P582817

CATALOG NUMBER: HC650D010-HM64560935-61PSMDW

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°	164252
5°	163807
10°	161370
15°	158815
20°	153588
25°	146289
30°	133565
35°	107539
40°	72479
45°	52850
50°	45679
55°	41270
60°	39153
65°	37060
70°	34862
75°	33000
80°	30749
85°	28619



TEST NUMBER: P582817

CATALOG NUMBER: HC650D010-HM64560935-61PSMDW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	281.7	6.1
10°-20°	785.8	17.1
20°-30°	1104.0	24.0
30°-40°	982.7	21.4
40°-50°	549.2	12.0
50°-60°	391.3	8.5
60°-70°	284.7	6.2
70°-80°	164.8	3.6
80°-90°	51.3	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°	2171.6	47.3
0°-40°	3154.3	68.6
0°-60°	4094.8	89.1
0°-90°	4595.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4595.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2996	
5°	2977	282
15°	2798	786
25°	2418	1104
35°	1607	983
45°	682	549
55°	432	391
65°	286	285
75°	156	165
85°	46	51
90°	0	



TEST NUMBER: P582817

CATALOG NUMBER: HC650D010-HM64560935-61PSMDW

CANDELA DISTRIBUTION (FULL):

	0°
0°	2996.2
2.5°	2983.2
5°	2976.7
7.5°	2950.8
10°	2898.9
12.5°	2850.1
15°	2798.3
17.5°	2726.8
20°	2632.7
22.5°	2528.8
25°	2418.5
27.5°	2282.0
30°	2110.0
32.5°	1889.2
35°	1606.9
37.5°	1288.7
40°	1012.8
42.5°	808.3
45°	681.7
47.5°	597.3
50°	535.6
52.5°	480.4
55°	431.8
57.5°	392.8
60°	357.1
62.5°	324.7
65°	285.7
67.5°	253.2
70°	217.5
72.5°	185.1
75°	155.8
77.5°	126.6
80°	97.4
82.5°	71.5
85°	45.5
87.5°	22.7
90°	0.0



Report Generated By 670245859 / DESKTOP-HRDQ47P





— 0°-180°







(END OF REPORT)