

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: P583195

Luminaire Tested: **HC660D010-HM64560840-61PSMDW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P583195
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: HC660D010-HM64560840-61PSMDW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" PLASTIC TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5867.4 lumens
Efficiency: N/A
Efficacy: 106.7 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

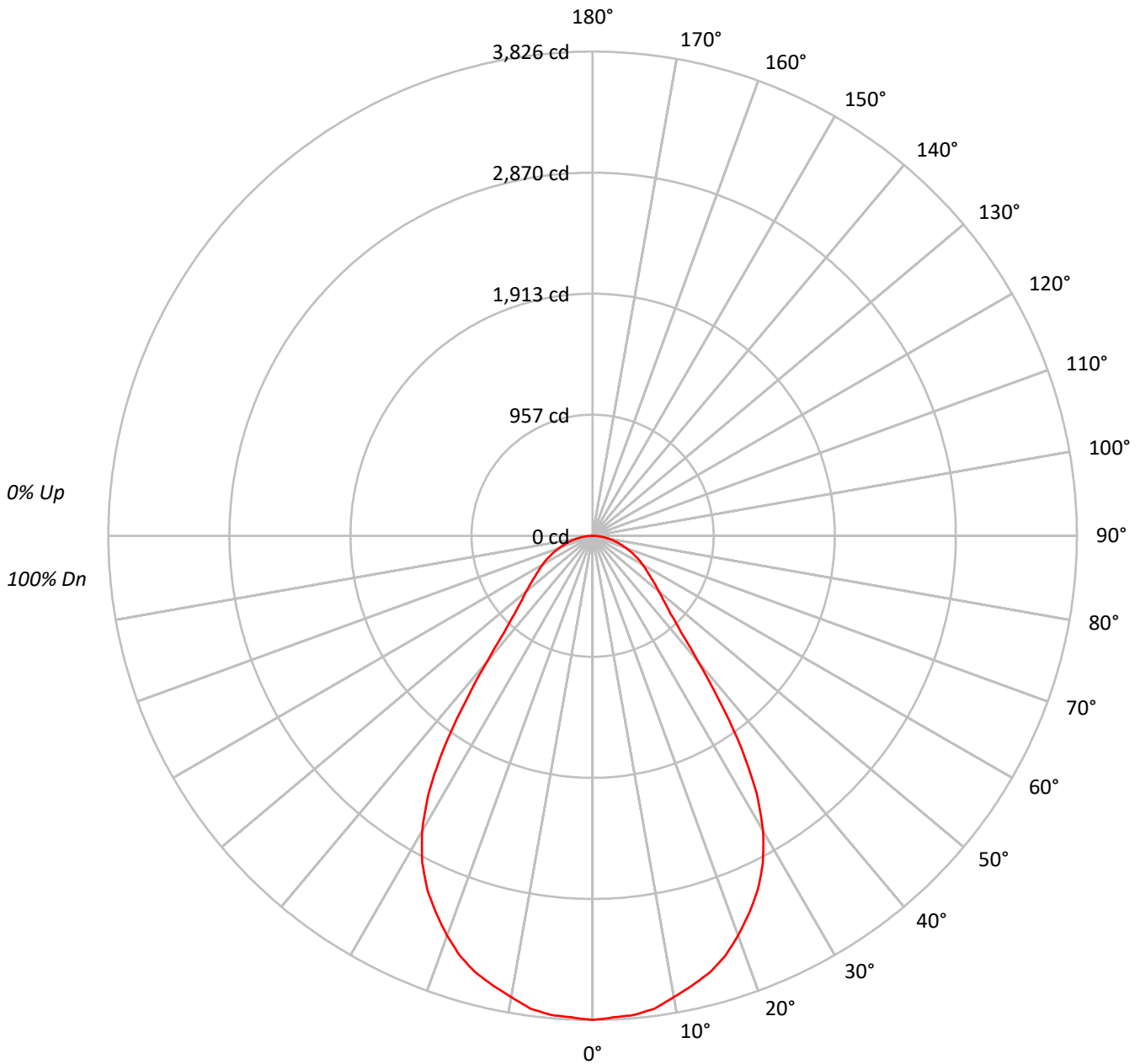
Input Watts (W): 55
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				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	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88				88
2	103	96	91	86	101	95	90	85	91	87	83	88	85	82	85	82	80	78				78
3	96	87	81	75	94	86	80	75	83	78	73	80	76	72	78	74	71	69				69
4	89	80	72	67	87	78	72	66	76	70	65	74	69	65	72	67	64	62				62
5	84	73	65	60	82	72	65	59	70	64	59	68	63	58	66	62	58	56				56
6	78	67	59	54	77	66	59	54	64	58	53	63	57	53	61	56	53	51				51
7	73	62	54	49	72	61	54	49	60	53	49	58	53	48	57	52	48	46				46
8	69	57	50	45	68	57	50	45	56	49	45	54	49	44	53	48	44	43				43
9	65	53	46	41	64	53	46	41	52	46	41	51	45	41	50	45	41	39				39
10	62	50	43	38	60	49	43	38	49	42	38	48	42	38	47	42	38	36				36

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	209715
5°	209151
10°	206030
15°	202759
20°	196093
25°	186773
30°	170533
35°	137293
40°	92538
45°	67472
50°	58318
55°	52691
60°	49985
65°	47320
70°	44511
75°	42150
80°	39241
85°	36481



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	359.7	6.1
10°-20°	1003.3	17.1
20°-30°	1409.6	24.0
30°-40°	1254.7	21.4
40°-50°	701.2	12.0
50°-60°	499.6	8.5
60°-70°	363.5	6.2
70°-80°	210.4	3.6
80°-90°	65.4	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°	2772.6	47.3
0°-40°	4027.3	68.6
0°-60°	5228.1	89.1
0°-90°	5867.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5867.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3826	
5°	3801	360
15°	3573	1003
25°	3088	1410
35°	2052	1255
45°	870	701
55°	551	500
65°	365	363
75°	199	210
85°	58	65
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3825.5
2.5°	3809.0
5°	3800.7
7.5°	3767.5
10°	3701.2
12.5°	3639.0
15°	3572.6
17.5°	3481.5
20°	3361.3
22.5°	3228.6
25°	3087.8
27.5°	2913.7
30°	2694.0
32.5°	2412.2
35°	2051.5
37.5°	1645.4
40°	1293.1
42.5°	1032.0
45°	870.3
47.5°	762.7
50°	683.8
52.5°	613.4
55°	551.3
57.5°	501.5
60°	455.9
62.5°	414.4
65°	364.8
67.5°	323.3
70°	277.7
72.5°	236.2
75°	199.0
77.5°	161.7
80°	124.3
82.5°	91.2
85°	58.0
87.5°	29.1
90°	0.0



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— 0°-180°







(END OF REPORT)