

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: P583209

Luminaire Tested: **HC660D010-HM64560927-61MDW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P583209
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-6)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC660D010-HM64560927-61MDW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" MEDIUM DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4049.3 lumens
Efficiency: N/A
Efficacy: 73.6 lumens/watt
Spacing Criteria (0/90/45): 1.08 / 1.08 / 1.03
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

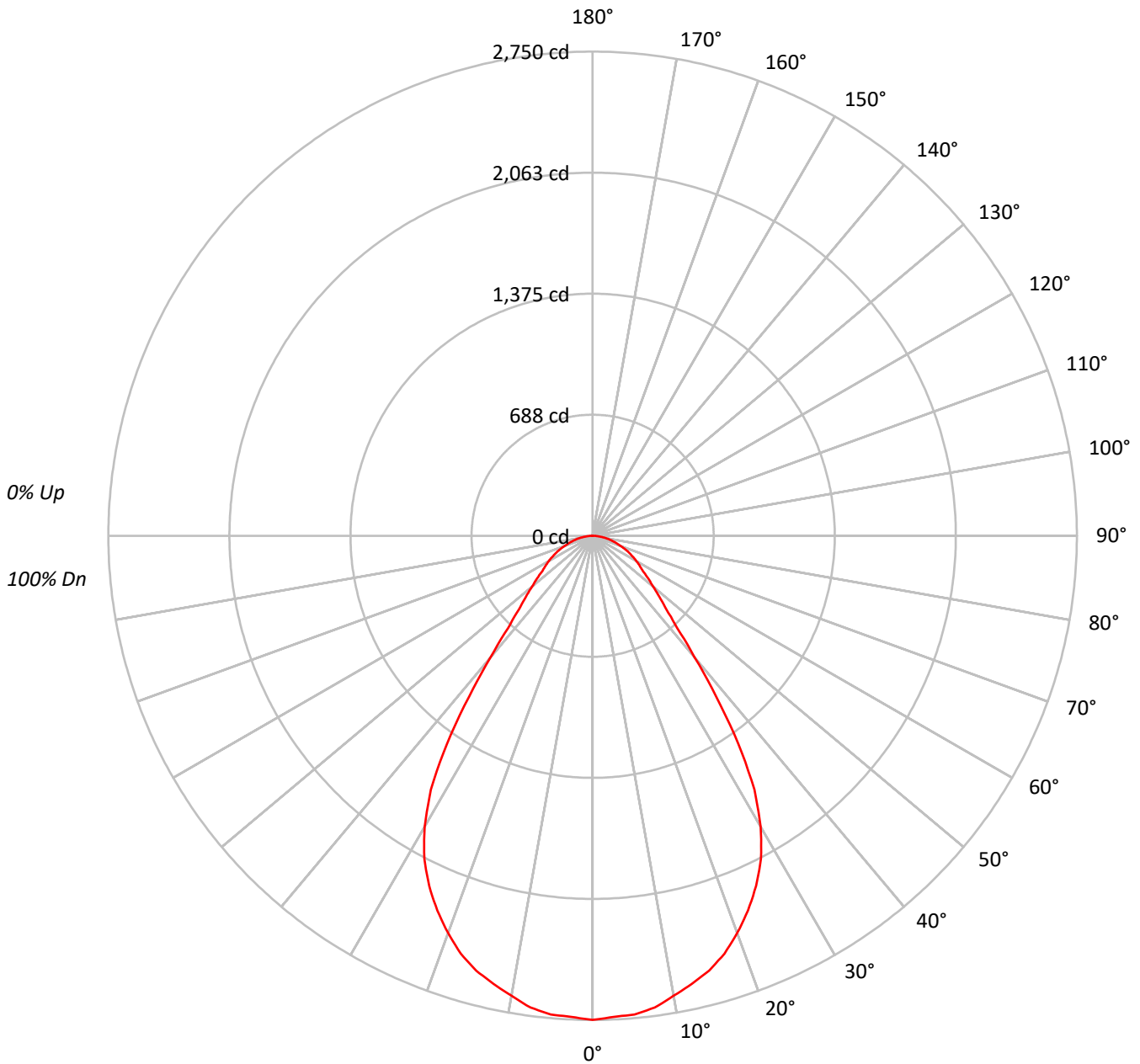
Input Watts (W): 55
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	82	86	83	81	79				79
3	97	88	82	76	94	87	81	76	84	79	75	81	77	73	79	75	72	70				70
4	90	80	73	68	88	79	73	67	77	71	67	75	70	66	73	68	65	63				63
5	84	74	66	61	82	73	66	61	71	65	60	69	64	59	67	63	59	57				57
6	79	68	61	55	77	67	60	55	65	59	55	64	58	54	62	58	54	52				52
7	74	63	55	50	73	62	55	50	61	54	50	59	54	50	58	53	49	48				48
8	70	58	51	46	69	58	51	46	57	50	46	55	50	46	54	49	45	44				44
9	66	54	47	43	65	54	47	42	53	47	42	52	46	42	51	46	42	40				40
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	37				37

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	150739
5°	150181
10°	147676
15°	145075
20°	140065
25°	132806
30°	120803
35°	96523
40°	64406
45°	45904
50°	38250
55°	33346
60°	31489
65°	29666
70°	27248
75°	25459
80°	23141
85°	20316



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	258.1	6.4
10°-20°	717.7	17.7
20°-30°	1003.0	24.8
30°-40°	883.5	21.8
40°-50°	477.3	11.8
50°-60°	319.1	7.9
60°-70°	226.2	5.6
70°-80°	127.1	3.1
80°-90°	37.1	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°	1978.8	48.9
0°-40°	2862.3	70.7
0°-60°	3658.8	90.4
0°-90°	4049.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4049.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2750	
5°	2729	258
15°	2556	718
25°	2196	1003
35°	1442	884
45°	592	477
55°	349	319
65°	229	226
75°	120	127
85°	32	37
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2749.7
2.5°	2735.0
5°	2729.1
7.5°	2702.7
10°	2652.9
12.5°	2606.0
15°	2556.2
17.5°	2488.8
20°	2400.9
22.5°	2304.1
25°	2195.6
27.5°	2069.6
30°	1908.4
32.5°	1709.1
35°	1442.3
37.5°	1152.0
40°	900.0
42.5°	709.4
45°	592.1
47.5°	513.0
50°	448.5
52.5°	395.7
55°	348.9
57.5°	316.6
60°	287.2
62.5°	258.0
65°	228.7
67.5°	199.3
70°	170.0
72.5°	143.6
75°	120.2
77.5°	96.7
80°	73.3
82.5°	52.8
85°	32.3
87.5°	14.6
90°	0.0



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— 0°-180°







(END OF REPORT)