

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: P583165

Luminaire Tested: **HC660D010-HM64560830-61WDW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P583165
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-9)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC660D010-HM64560830-61WDW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5559.8 lumens
Efficiency: N/A
Efficacy: 101.1 lumens/watt
Spacing Criteria (0/90/45): 1.11 / 1.11 / 1.09
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

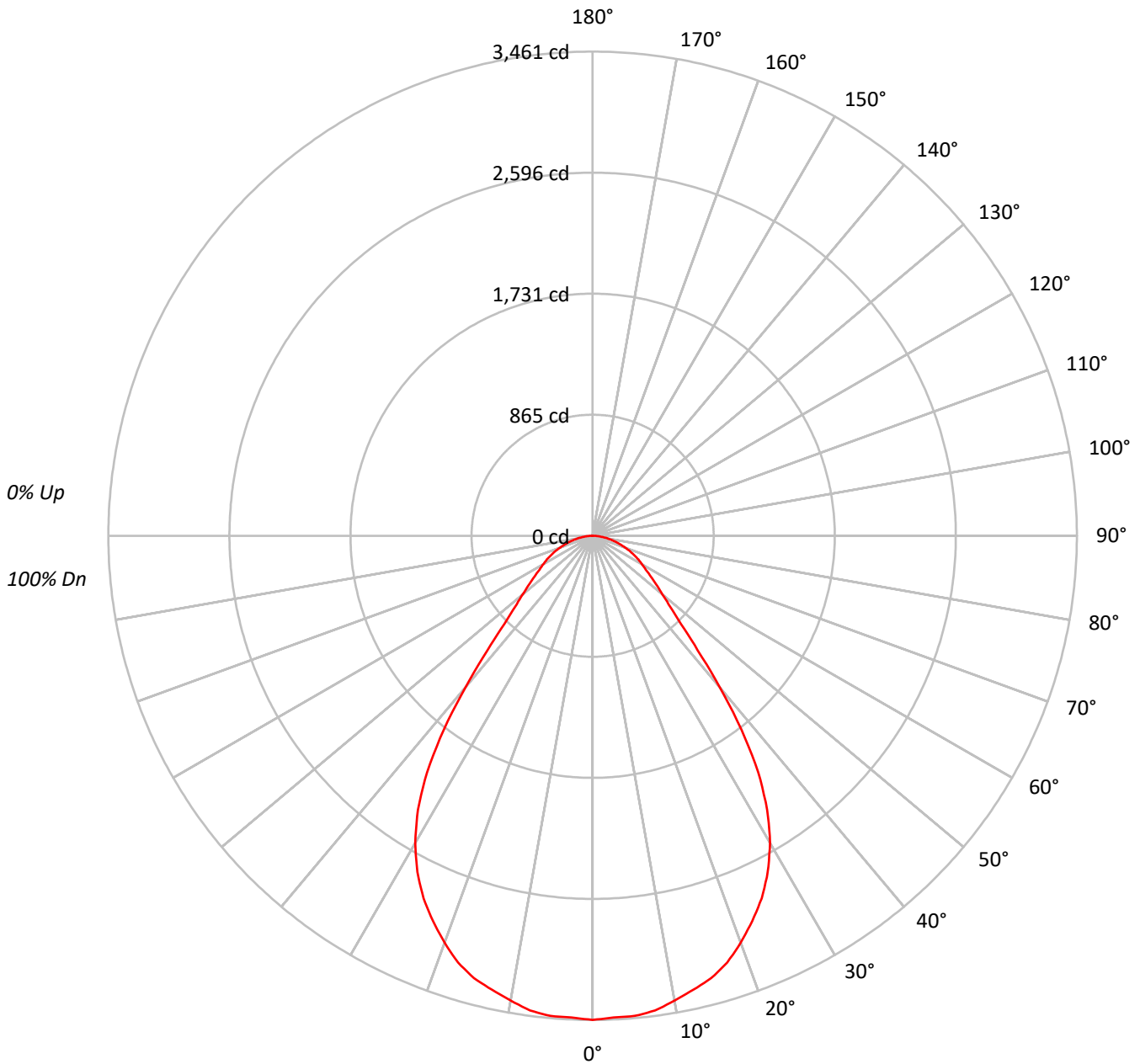
Input Watts (W): 55
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				
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	94	92	90	89			89
2	103	97	91	87	101	95	90	86	91	87	84	88	85	82	85	83	80	78			78
3	96	87	81	76	94	86	80	75	83	78	74	81	76	72	78	74	71	69			69
4	89	80	72	67	87	78	72	66	76	70	66	74	69	65	72	67	64	62			62
5	84	73	65	60	82	72	65	59	70	64	59	68	63	58	66	61	58	56			56
6	78	67	59	54	76	66	59	54	64	58	53	63	57	53	61	56	52	51			51
7	73	62	54	49	72	61	54	49	60	53	48	58	52	48	57	52	48	46			46
8	69	57	50	45	68	57	50	45	55	49	44	54	48	44	53	48	44	42			42
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	44	41	39			39
10	61	50	43	38	60	49	42	38	48	42	38	47	42	38	47	41	38	36			36

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	189733
5°	189621
10°	187783
15°	185835
20°	180581
25°	172952
30°	160512
35°	138102
40°	100817
45°	69077
50°	55529
55°	48400
60°	44667
65°	42482
70°	39670
75°	37088
80°	33653
85°	28745



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	326.6	5.9
10°-20°	919.6	16.5
20°-30°	1307.9	23.5
30°-40°	1259.2	22.6
40°-50°	724.5	13.0
50°-60°	459.1	8.3
60°-70°	325.0	5.8
70°-80°	185.2	3.3
80°-90°	52.9	1.0
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°	2554.1	45.9
0°-40°	3813.3	68.6
0°-60°	4996.8	89.9
0°-90°	5559.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5559.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3461	
5°	3446	327
15°	3274	920
25°	2859	1308
35°	2064	1259
45°	891	724
55°	506	459
65°	328	325
75°	175	185
85°	46	53
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	3461.0
2.5°	3445.8
5°	3445.8
7.5°	3422.9
10°	3373.4
12.5°	3323.9
15°	3274.4
17.5°	3198.2
20°	3095.4
22.5°	2981.2
25°	2859.3
27.5°	2710.8
30°	2535.7
32.5°	2322.6
35°	2063.6
37.5°	1747.6
40°	1408.8
42.5°	1111.8
45°	891.0
47.5°	750.0
50°	651.1
52.5°	571.1
55°	506.4
57.5°	449.3
60°	407.4
62.5°	369.3
65°	327.5
67.5°	289.3
70°	247.5
72.5°	209.4
75°	175.1
77.5°	140.8
80°	106.6
82.5°	76.2
85°	45.7
87.5°	19.1
90°	0.0



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— 0°-180°







(END OF REPORT)