

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: P593416

Luminaire Tested: **HC660D010-HM64560850-61WDH**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P593416
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-8)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC660D010-HM64560850-61WDH
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6128.5 lumens
Efficiency: N/A
Efficacy: 111.4 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.08
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

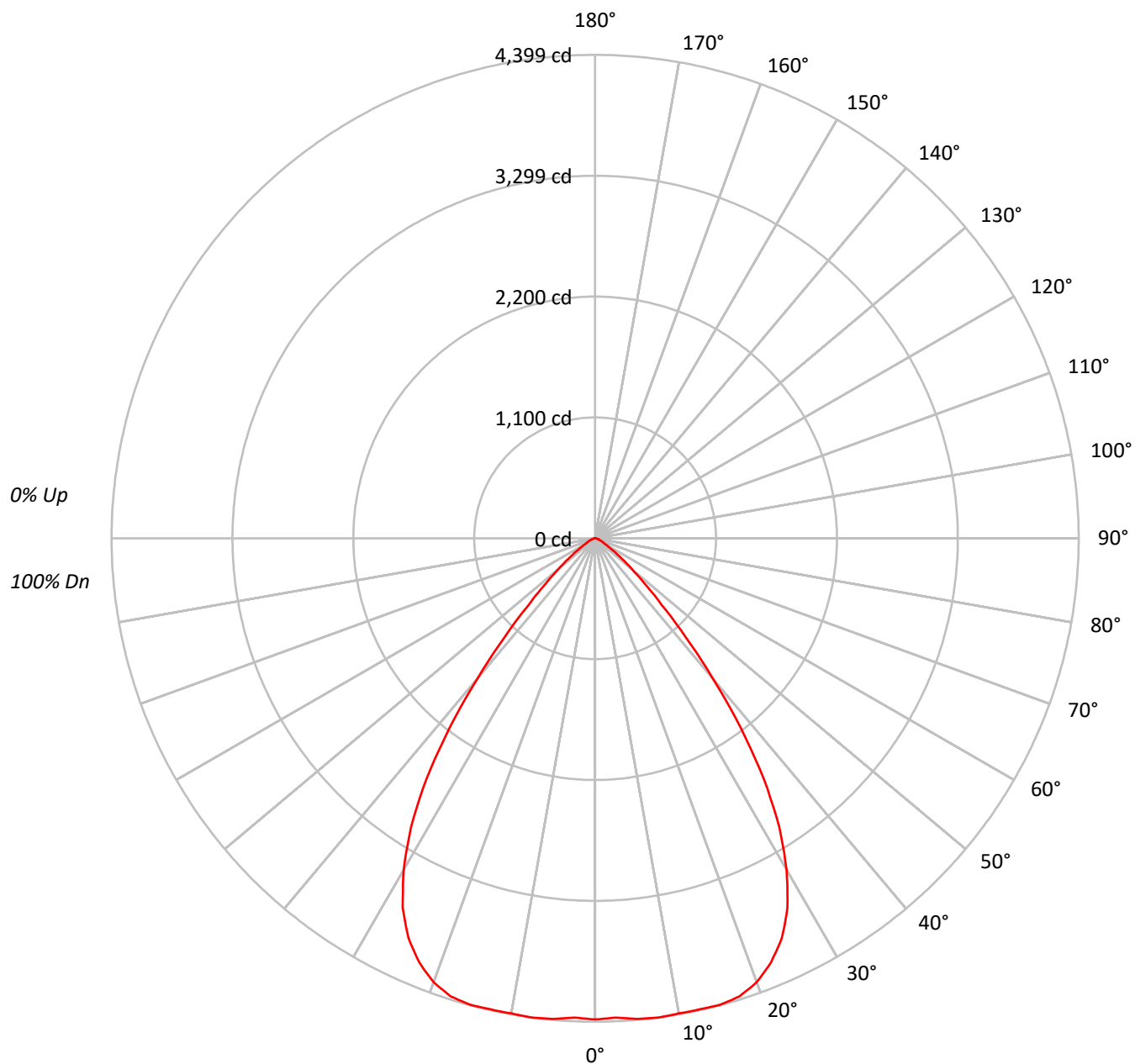
Input Watts (W): 55
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
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	113	110	107	105	110	108	105	103	103	101	100	100	98	97	96	95	94	92		
2	106	101	96	93	104	99	95	92	96	92	90	93	90	88	90	88	86	84		
3	100	93	87	83	98	91	86	82	89	84	81	86	83	80	84	81	78	77		
4	94	86	79	75	92	85	79	74	82	77	73	80	76	72	78	75	72	70		
5	89	79	73	68	87	78	72	68	76	71	67	75	70	66	73	69	66	64		
6	83	73	67	62	82	73	66	62	71	65	61	70	65	61	68	64	60	59		
7	79	68	62	57	77	68	61	57	66	60	56	65	60	56	64	59	56	54		
8	74	64	57	52	73	63	57	52	62	56	52	61	56	52	60	55	51	50		
9	70	59	53	48	69	59	53	48	58	52	48	57	52	48	56	51	48	46		
10	66	56	49	45	65	55	49	45	54	49	45	53	48	45	53	48	44	43		

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	240014
5°	241613
10°	244407
15°	249417
20°	250820
25°	243008
30°	220452
35°	179240
40°	118973
45°	66208
50°	37125
55°	20606
60°	11370
65°	8600
70°	5979
75°	4384
80°	2620
85°	2579



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	419.1	6.8
10°-20°	1239.2	20.2
20°-30°	1826.4	29.8
30°-40°	1633.6	26.7
40°-50°	708.7	11.6
50°-60°	208.2	3.4
60°-70°	66.5	1.1
70°-80°	23.5	0.4
80°-90°	3.4	0.1
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°	3484.6	56.9
0°-40°	5118.2	83.5
0°-60°	6035.1	98.5
0°-90°	6128.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6128.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4378	
5°	4391	419
15°	4395	1239
25°	4018	1826
35°	2678	1634
45°	854	709
55°	216	208
65°	66	66
75°	21	23
85°	4	3
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4378.2
2.5°	4365.7
5°	4390.6
7.5°	4398.8
10°	4390.6
12.5°	4390.6
15°	4394.7
17.5°	4369.9
20°	4299.4
22.5°	4179.2
25°	4017.5
27.5°	3789.5
30°	3482.6
32.5°	3117.8
35°	2678.3
37.5°	2176.6
40°	1662.5
42.5°	1214.8
45°	854.0
47.5°	609.5
50°	435.3
52.5°	311.0
55°	215.6
57.5°	145.1
60°	103.7
62.5°	83.0
65°	66.3
67.5°	49.8
70°	37.3
72.5°	29.1
75°	20.7
77.5°	16.6
80°	8.3
82.5°	4.1
85°	4.1
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)