

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: P593315

Luminaire Tested: **HC645D010-HM64560850-61PSMDW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P593315
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: HC645D010-HM64560850-61PSMDW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" PLASTIC TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5076.8 lumens
Efficiency: N/A
Efficacy: 115.4 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

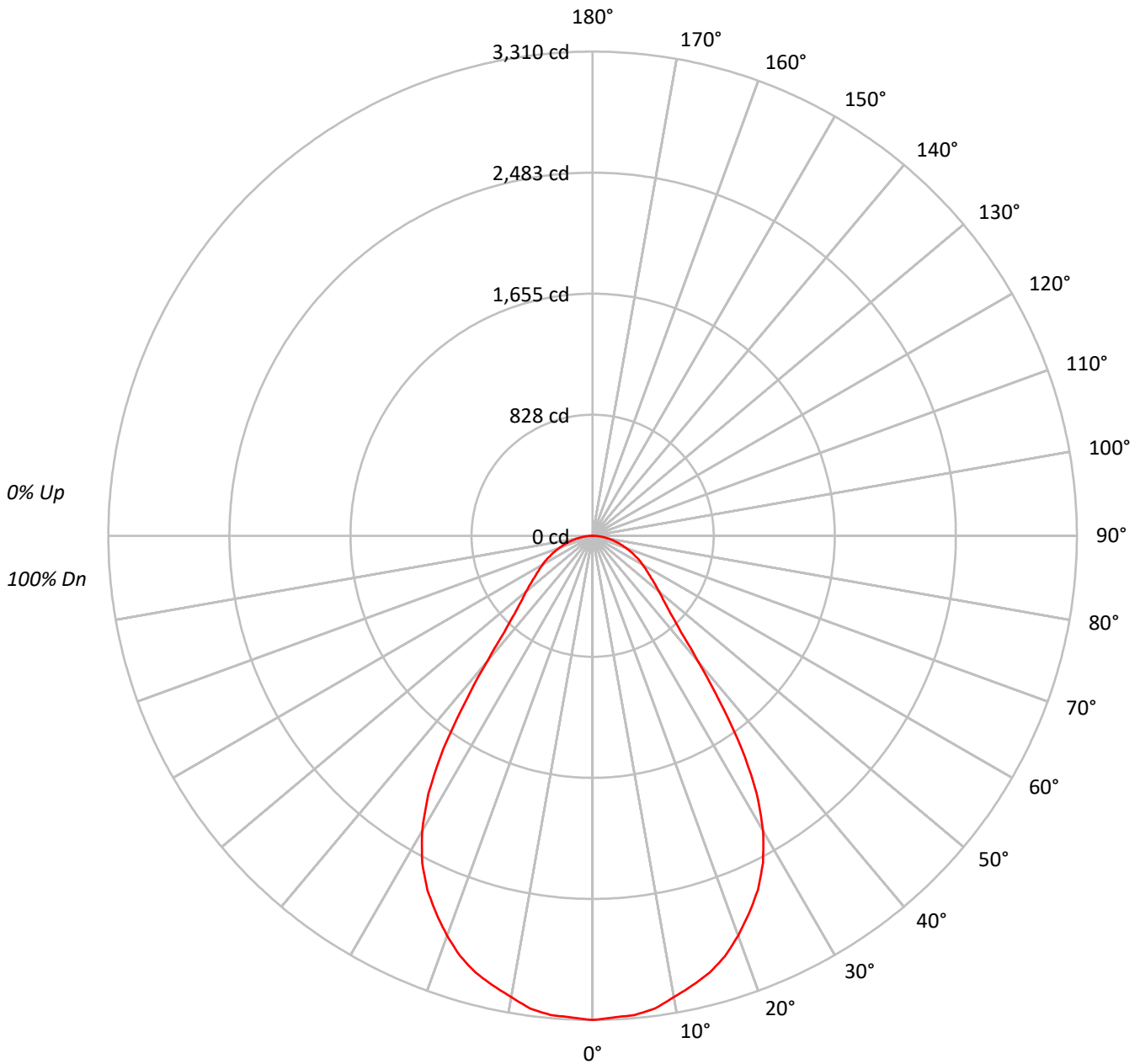
Input Watts (W): 44
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			
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°	181460
5°	180965
10°	178264
15°	175444
20°	169666
25°	161604
30°	147554
35°	118802
40°	80071
45°	58386
50°	50472
55°	45580
60°	43253
65°	40925
70°	38500
75°	36452
80°	33969
85°	31575



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	311.2	6.1
10°-20°	868.1	17.1
20°-30°	1219.7	24.0
30°-40°	1085.7	21.4
40°-50°	606.7	12.0
50°-60°	432.3	8.5
60°-70°	314.5	6.2
70°-80°	182.1	3.6
80°-90°	56.6	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°	2399.0	47.3
0°-40°	3484.7	68.6
0°-60°	4523.6	89.1
0°-90°	5076.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5076.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3310	
5°	3288	311
15°	3091	868
25°	2672	1220
35°	1775	1086
45°	753	607
55°	477	432
65°	316	314
75°	172	182
85°	50	57
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3310.1
2.5°	3295.7
5°	3288.5
7.5°	3259.9
10°	3202.4
12.5°	3148.7
15°	3091.3
17.5°	3012.4
20°	2908.3
22.5°	2793.6
25°	2671.7
27.5°	2521.1
30°	2331.0
32.5°	2087.1
35°	1775.2
37.5°	1423.7
40°	1118.9
42.5°	893.0
45°	753.1
47.5°	659.8
50°	591.8
52.5°	530.8
55°	476.9
57.5°	433.9
60°	394.5
62.5°	358.6
65°	315.5
67.5°	279.8
70°	240.2
72.5°	204.5
75°	172.1
77.5°	139.8
80°	107.6
82.5°	78.9
85°	50.2
87.5°	25.1
90°	0.0



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— 0°-180°







(END OF REPORT)