

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: P582618

Luminaire Tested: **HC645D010-HM64560840-61NDW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582618
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-3)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC645D010-HM64560840-61NDW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" NARROW DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4879.6 lumens
Efficiency: N/A
Efficacy: 110.9 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.06 / 1.03
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

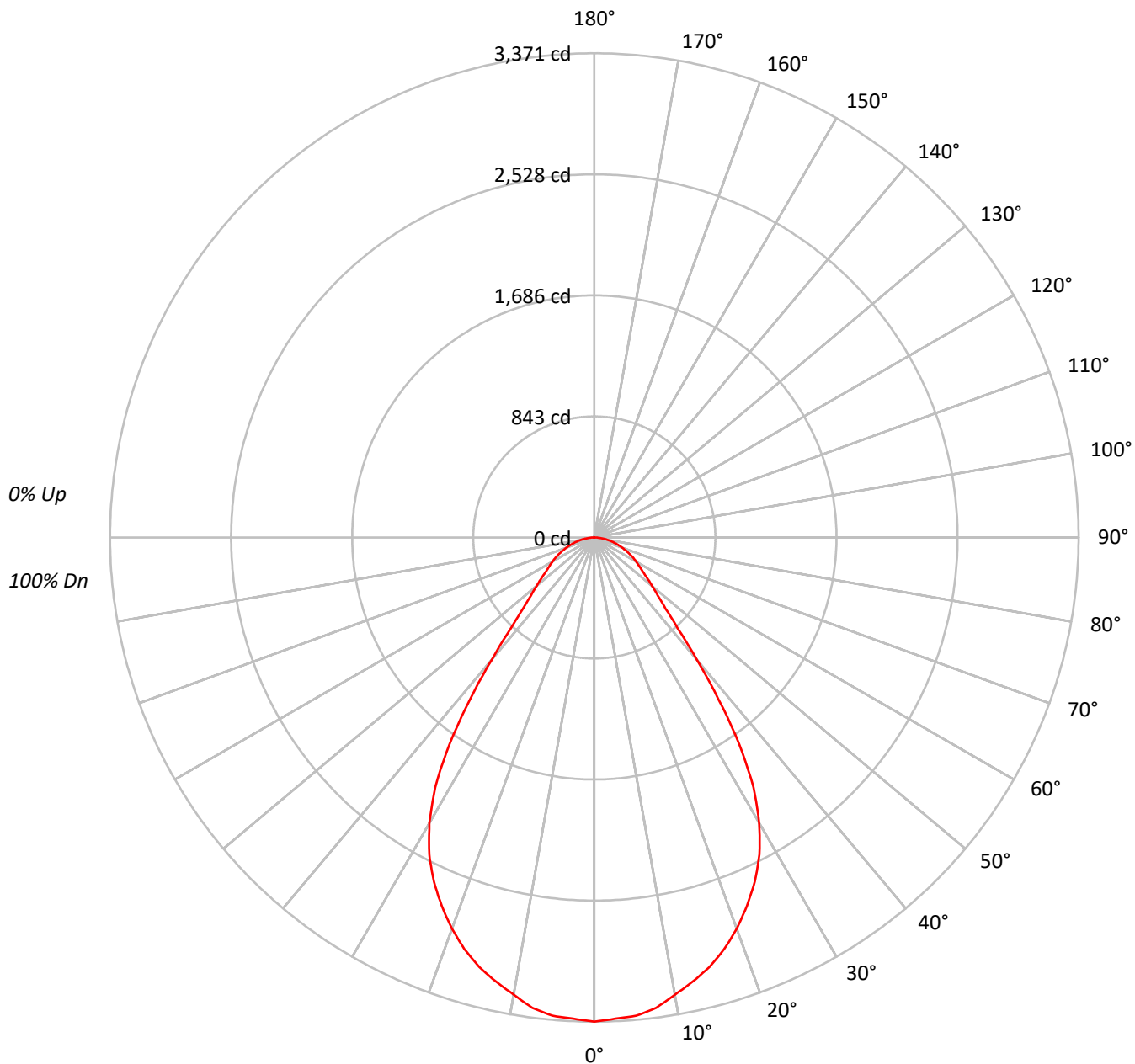
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	111	108	104	101	109	105	102	100	101	99	96	97	95	94	94	92	91	89		
2	104	97	92	87	101	95	90	86	92	88	84	89	85	83	86	83	81	79		
3	97	88	82	77	94	87	81	76	84	79	75	81	77	73	79	75	72	70		
4	90	81	73	68	88	79	73	68	77	71	67	75	70	66	73	69	65	63		
5	84	74	67	61	83	73	66	61	71	65	60	69	64	60	67	63	59	57		
6	79	68	61	55	77	67	60	55	66	59	55	64	59	54	63	58	54	52		
7	74	63	56	50	73	62	55	50	61	55	50	60	54	50	58	53	49	48		
8	70	59	51	46	69	58	51	46	57	50	46	56	50	46	54	49	46	44		
9	66	55	48	43	65	54	47	43	53	47	42	52	46	42	51	46	42	41		
10	63	51	44	40	61	51	44	40	50	44	39	49	43	39	48	43	39	38		

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	184821
5°	183947
10°	179884
15°	175665
20°	169065
25°	159892
30°	145301
35°	117611
40°	79313
45°	54502
50°	44655
55°	39081
60°	36960
65°	34893
70°	32778
75°	31157
80°	28286
85°	24782



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	315.6	6.5
10°-20°	869.2	17.8
20°-30°	1207.6	24.7
30°-40°	1075.2	22.0
40°-50°	570.7	11.7
50°-60°	373.2	7.6
60°-70°	267.5	5.5
70°-80°	155.1	3.2
80°-90°	45.3	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°	2392.4	49.0
0°-40°	3467.6	71.1
0°-60°	4411.6	90.4
0°-90°	4879.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4879.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3371	
5°	3343	316
15°	3095	869
25°	2643	1208
35°	1757	1075
45°	703	571
55°	409	373
65°	269	268
75°	147	155
85°	39	45
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	3371.4
2.5°	3353.5
5°	3342.7
7.5°	3303.3
10°	3231.5
12.5°	3167.0
15°	3095.2
17.5°	3005.6
20°	2898.0
22.5°	2776.0
25°	2643.4
27.5°	2489.1
30°	2295.4
32.5°	2062.3
35°	1757.4
37.5°	1420.3
40°	1108.3
42.5°	860.7
45°	703.0
47.5°	598.9
50°	523.6
52.5°	462.6
55°	408.9
57.5°	369.4
60°	337.1
62.5°	304.9
65°	269.0
67.5°	236.7
70°	204.5
72.5°	175.7
75°	147.1
77.5°	118.4
80°	89.6
82.5°	64.5
85°	39.4
87.5°	17.9
90°	0.0



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— 0°-180°







(END OF REPORT)