

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: P593323

Luminaire Tested: **HC645D010-HM64560950-61WDWB**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P593323
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-10)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC645D010-HM64560950-61WDWB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4976.1 lumens
Efficiency: N/A
Efficacy: 113.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.05
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

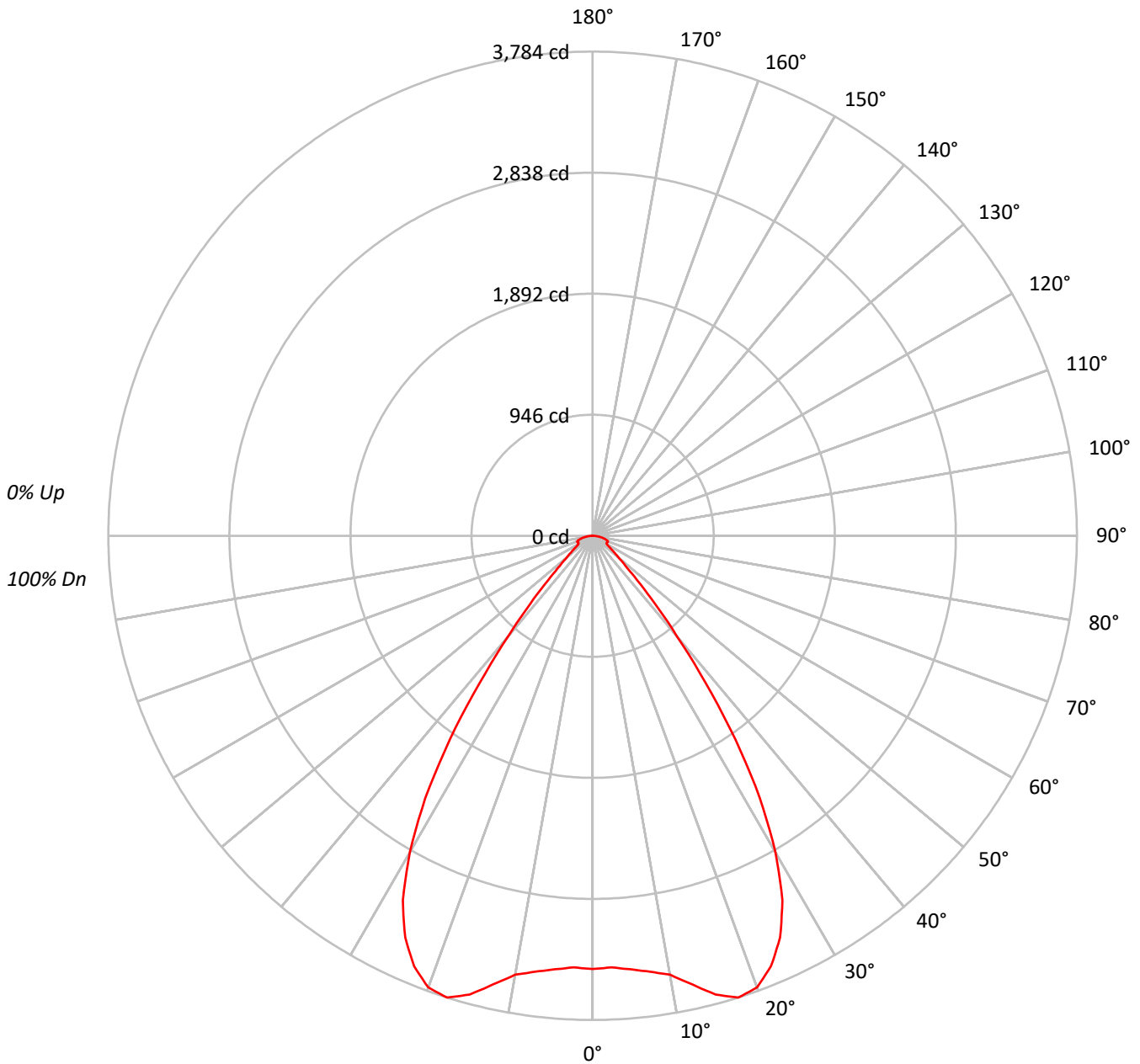
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			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	112	109	106	103	110	107	104	102	103	100	98	99	97	95	95	94	93	91			
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	82			
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	75			
4	93	85	78	73	91	83	78	73	81	76	72	79	75	71	77	73	70	69			
5	88	78	72	67	86	77	71	66	75	70	66	74	69	65	72	68	65	63			
6	83	73	66	61	81	72	66	61	70	65	60	69	64	60	67	63	60	58			
7	78	68	61	56	77	67	61	56	66	60	56	64	59	55	63	59	55	54			
8	74	63	57	52	73	63	56	52	61	56	52	60	55	51	59	55	51	50			
9	70	59	53	48	69	59	52	48	58	52	48	57	51	48	56	51	48	46			
10	66	56	49	45	65	55	49	45	54	48	45	53	48	44	53	48	44	43			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	185588
5°	187167
10°	193912
15°	210631
20°	219096
25°	209565
30°	180857
35°	130219
40°	73359
45°	38019
50°	22669
55°	16334
60°	13880
65°	16007
70°	20292
75°	21435
80°	20962
85°	19939



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	327.3	6.6
10°-20°	1046.8	21.0
20°-30°	1564.6	31.4
30°-40°	1196.0	24.0
40°-50°	417.7	8.4
50°-60°	159.2	3.2
60°-70°	124.9	2.5
70°-80°	105.6	2.1
80°-90°	34.0	0.7
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°	2938.6	59.1
0°-40°	4134.6	83.1
0°-60°	4711.5	94.7
0°-90°	4976.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4976.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3385	
5°	3401	327
15°	3711	1047
25°	3465	1565
35°	1946	1196
45°	490	418
55°	171	159
65°	123	125
75°	101	106
85°	32	34
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3385.4
2.5°	3375.9
5°	3401.2
7.5°	3436.1
10°	3483.5
12.5°	3591.1
15°	3711.3
17.5°	3784.1
20°	3755.6
22.5°	3641.7
25°	3464.6
27.5°	3211.4
30°	2857.1
32.5°	2433.0
35°	1945.8
37.5°	1442.8
40°	1025.1
42.5°	718.2
45°	490.4
47.5°	344.9
50°	265.8
52.5°	208.8
55°	170.9
57.5°	139.2
60°	126.6
62.5°	123.4
65°	123.4
67.5°	129.7
70°	126.6
72.5°	117.1
75°	101.2
77.5°	85.4
80°	66.4
82.5°	47.5
85°	31.7
87.5°	12.7
90°	0.0



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— 0°-180°







(END OF REPORT)