

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: P582568

Luminaire Tested: **HC645D010-HM64560827-61WDBB**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582568
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-11)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC645D010-HM64560827-61WDBB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, BLACK BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4027.4 lumens
Efficiency: N/A
Efficacy: 91.5 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 1.32 / 1.14
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

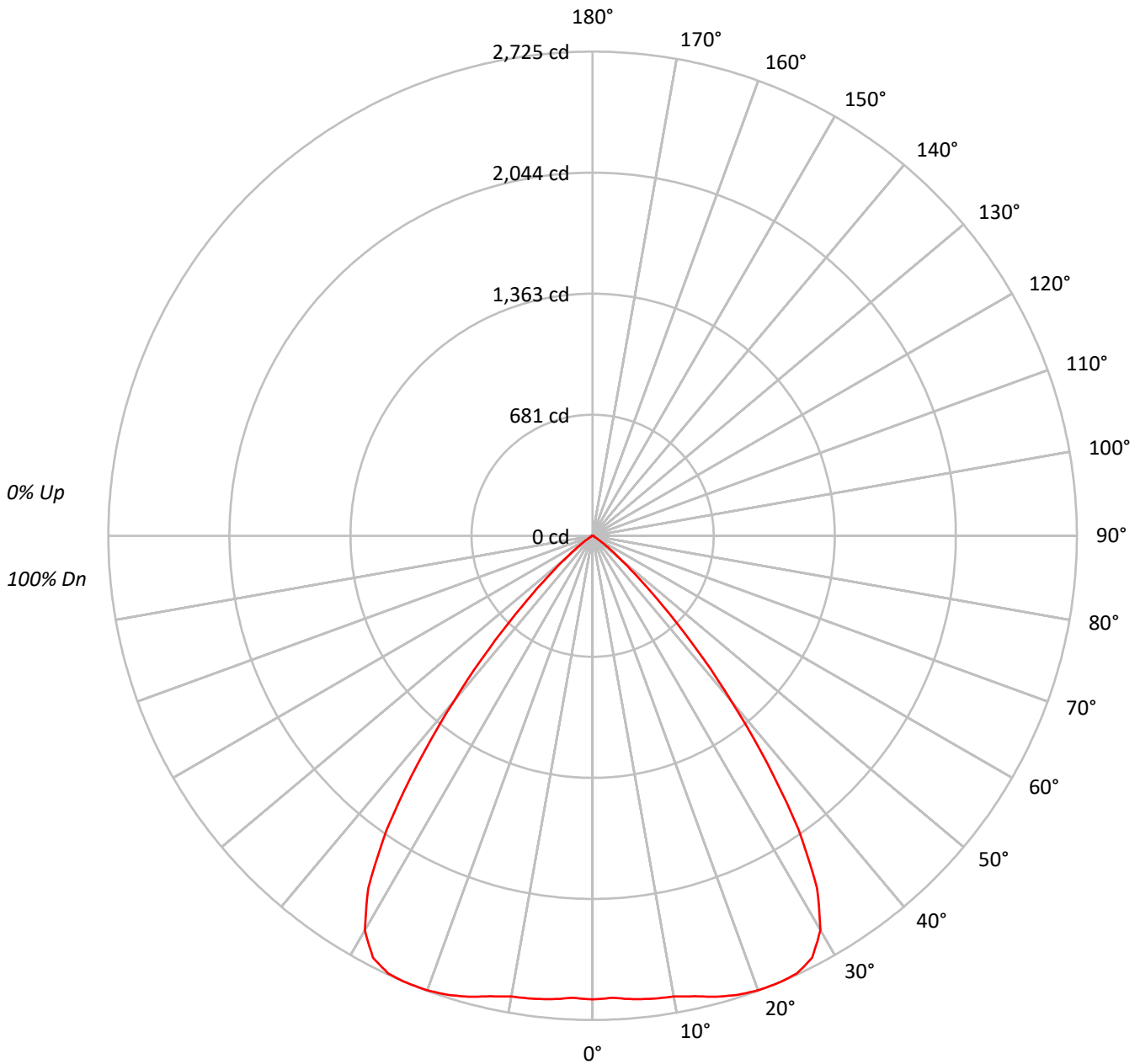
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100	100	100
1	113	110	107	105	110	108	105	103	104	102	100	100	98	97	97	95	94	92	92	92	92
2	107	101	97	93	104	100	95	92	96	93	90	93	91	88	90	88	86	85	85	85	85
3	100	93	88	83	98	92	87	83	89	85	81	87	83	80	84	81	79	77	77	77	77
4	95	86	80	75	93	85	79	75	83	78	74	81	77	73	79	75	72	71	71	71	71
5	89	80	73	68	87	79	73	68	77	72	67	75	70	67	73	69	66	65	65	65	65
6	84	74	67	62	82	73	67	62	71	66	62	70	65	61	69	64	61	59	59	59	59
7	79	68	62	57	77	68	61	57	66	61	57	65	60	56	64	59	56	54	54	54	54
8	74	64	57	52	73	63	57	52	62	56	52	61	56	52	60	55	52	50	50	50	50
9	70	59	53	48	69	59	53	48	58	52	48	57	52	48	56	51	48	46	46	46	46
10	66	56	49	45	65	55	49	45	54	48	45	53	48	44	53	48	44	43	43	43	43

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	143031
5°	144084
10°	146596
15°	152413
20°	158803
25°	164465
30°	162265
35°	135191
40°	86698
45°	43299
50°	17176
55°	5830
60°	1667
65°	1180
70°	978
75°	1292
80°	947
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	250.4	6.2
10°-20°	761.7	18.9
20°-30°	1243.7	30.9
30°-40°	1219.1	30.3
40°-50°	467.4	11.6
50°-60°	68.6	1.7
60°-70°	10.1	0.3
70°-80°	5.2	0.1
80°-90°	1.2	0.0
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°	2255.7	56.0
0°-40°	3474.8	86.3
0°-60°	4010.8	99.6
0°-90°	4027.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4027.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2609	
5°	2618	250
15°	2686	762
25°	2719	1244
35°	2020	1219
45°	558	467
55°	61	69
65°	9	10
75°	6	5
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	2609.1
2.5°	2603.0
5°	2618.3
7.5°	2627.4
10°	2633.5
12.5°	2655.0
15°	2685.5
17.5°	2709.9
20°	2722.1
22.5°	2725.1
25°	2719.0
27.5°	2676.3
30°	2563.4
32.5°	2349.8
35°	2020.1
37.5°	1614.3
40°	1211.5
42.5°	863.6
45°	558.5
47.5°	341.8
50°	201.4
52.5°	116.0
55°	61.0
57.5°	27.4
60°	15.2
62.5°	12.2
65°	9.1
67.5°	9.1
70°	6.1
72.5°	6.1
75°	6.1
77.5°	3.0
80°	3.0
82.5°	3.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)