

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: P582640

Luminaire Tested: **HC645D010-HM64560927-61WDBB**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582640
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-HM64560927-61WDBB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, BLACK BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3349.0 lumens
Efficiency: N/A
Efficacy: 76.1 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

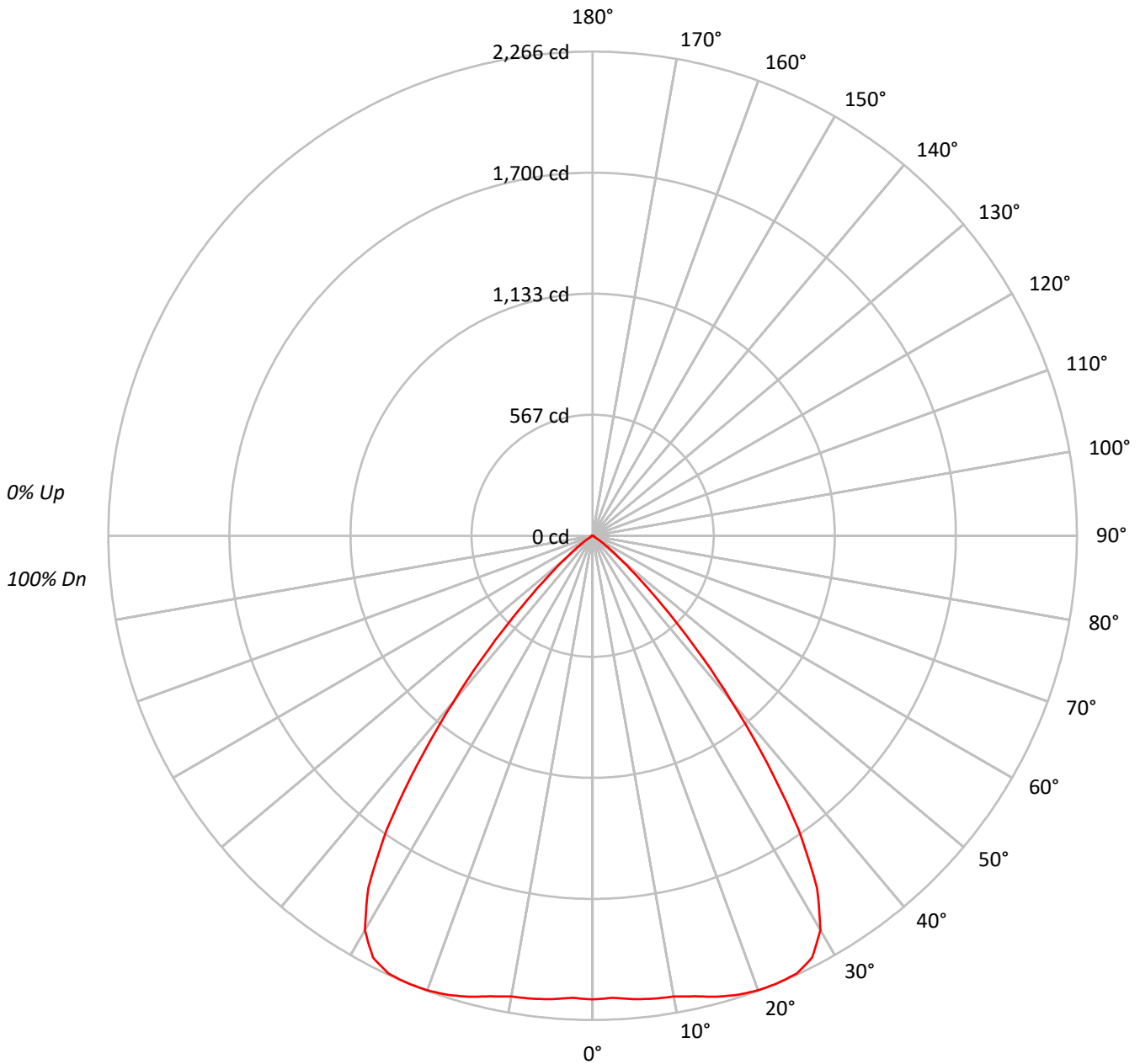
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				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
1	113	110	107	105	110	108	105	103	104	102	100	100	98	97	97	95	94	92				92
2	107	101	97	93	104	100	95	92	96	93	90	93	91	88	90	88	86	85				85
3	100	93	88	83	98	92	87	83	89	85	81	87	83	80	84	81	79	77				77
4	95	86	80	75	93	85	79	75	83	78	74	81	77	73	79	75	72	71				71
5	89	80	73	68	87	79	73	68	77	72	67	75	70	67	73	69	66	65				65
6	84	74	67	62	82	73	67	62	71	66	62	70	65	61	69	64	61	59				59
7	79	68	62	57	77	68	61	57	66	61	57	65	60	56	64	59	56	54				54
8	74	64	57	52	73	63	57	52	62	56	52	61	56	52	60	55	52	50				50
9	70	59	53	48	69	59	53	48	58	52	48	57	52	48	56	51	48	46				46
10	66	56	49	45	65	55	49	45	54	48	45	53	48	44	53	48	44	43				43

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	118938
5°	119810
10°	121903
15°	126732
20°	132043
25°	136750
30°	134926
35°	112424
40°	72092
45°	36004
50°	14285
55°	4855
60°	1392
65°	986
70°	801
75°	1059
80°	821
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	208.2	6.2
10°-20°	633.3	18.9
20°-30°	1034.1	30.9
30°-40°	1013.8	30.3
40°-50°	388.7	11.6
50°-60°	57.1	1.7
60°-70°	8.5	0.3
70°-80°	4.3	0.1
80°-90°	1.1	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°	1875.6	56.0
0°-40°	2889.4	86.3
0°-60°	3335.1	99.6
0°-90°	3349.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3349.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2170	
5°	2177	208
15°	2233	633
25°	2261	1034
35°	1680	1014
45°	464	389
55°	51	57
65°	8	8
75°	5	4
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2169.6
2.5°	2164.4
5°	2177.2
7.5°	2184.7
10°	2189.9
12.5°	2207.6
15°	2233.0
17.5°	2253.3
20°	2263.4
22.5°	2266.0
25°	2260.8
27.5°	2225.4
30°	2131.5
32.5°	1953.9
35°	1679.9
37.5°	1342.4
40°	1007.4
42.5°	718.1
45°	464.4
47.5°	284.2
50°	167.5
52.5°	96.4
55°	50.8
57.5°	22.9
60°	12.7
62.5°	10.2
65°	7.6
67.5°	7.6
70°	5.0
72.5°	5.0
75°	5.0
77.5°	2.6
80°	2.6
82.5°	2.6
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)