

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: P582302

Luminaire Tested: **HC635D010-HM63040830-61WDWB**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582302
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: HC635D010-HM63040830-61WDWB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4104.7 lumens
Efficiency: N/A
Efficacy: 121.8 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

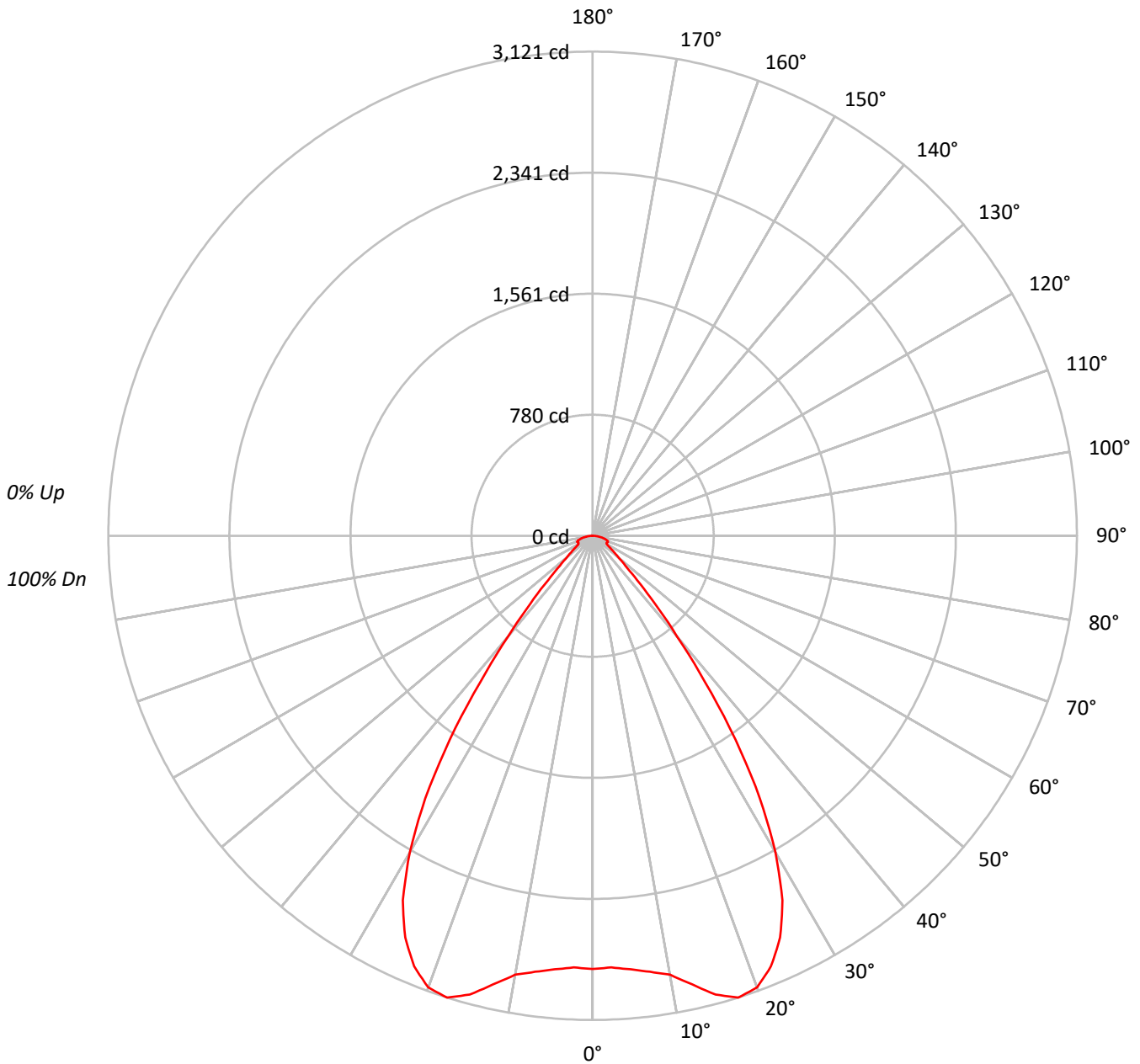
Input Watts (W): 33.7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	153091
5°	154391
10°	159956
15°	173747
20°	180727
25°	172867
30°	149188
35°	107418
40°	60513
45°	31360
50°	18703
55°	13476
60°	11446
65°	13205
70°	16734
75°	17707
80°	17300
85°	16417



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	270.0	6.6
10°-20°	863.4	21.0
20°-30°	1290.6	31.4
30°-40°	986.6	24.0
40°-50°	344.6	8.4
50°-60°	131.3	3.2
60°-70°	103.0	2.5
70°-80°	87.1	2.1
80°-90°	28.0	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°	2424.0	59.1
0°-40°	3410.6	83.1
0°-60°	3886.5	94.7
0°-90°	4104.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4104.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2793	
5°	2806	270
15°	3061	863
25°	2858	1291
35°	1605	987
45°	404	345
55°	141	131
65°	102	103
75°	84	87
85°	26	28
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2792.6
2.5°	2784.7
5°	2805.6
7.5°	2834.3
10°	2873.5
12.5°	2962.2
15°	3061.4
17.5°	3121.4
20°	3097.9
22.5°	3004.0
25°	2857.9
27.5°	2649.1
30°	2356.8
32.5°	2007.0
35°	1605.1
37.5°	1190.1
40°	845.6
42.5°	592.5
45°	404.5
47.5°	284.5
50°	219.3
52.5°	172.2
55°	141.0
57.5°	114.8
60°	104.4
62.5°	101.8
65°	101.8
67.5°	107.0
70°	104.4
72.5°	96.5
75°	83.6
77.5°	70.5
80°	54.8
82.5°	39.1
85°	26.1
87.5°	10.4
90°	0.0



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— 0°-180°







(END OF REPORT)