

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: P593242

Luminaire Tested: **HC635D010-HM63040850-61NDW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P593242
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: HC635D010-HM63040850-61NDW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" NARROW DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3872.3 lumens
Efficiency: N/A
Efficacy: 114.9 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

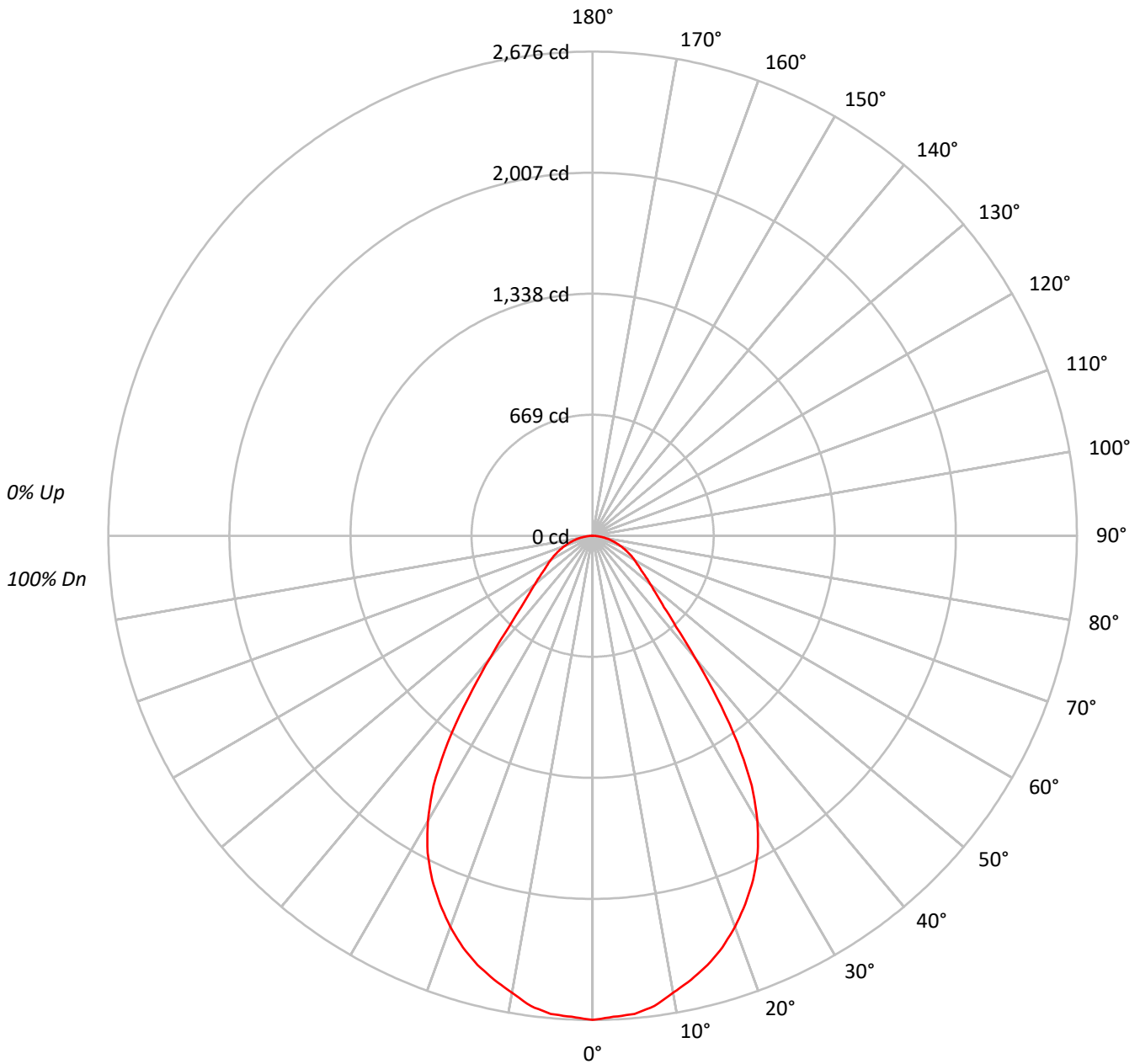
Input Watts (W): 33.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	146671
5°	145977
10°	142755
15°	139405
20°	134167
25°	126884
30°	115309
35°	93338
40°	62939
45°	43245
50°	35444
55°	31005
60°	29340
65°	27681
70°	25998
75°	24718
80°	22478
85°	19687



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	250.4	6.5
10°-20°	689.8	17.8
20°-30°	958.3	24.7
30°-40°	853.3	22.0
40°-50°	452.9	11.7
50°-60°	296.2	7.6
60°-70°	212.3	5.5
70°-80°	123.1	3.2
80°-90°	36.0	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°	1898.5	49.0
0°-40°	2751.8	71.1
0°-60°	3500.9	90.4
0°-90°	3872.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3872.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2676	
5°	2653	250
15°	2456	690
25°	2098	958
35°	1395	853
45°	558	453
55°	324	296
65°	213	212
75°	117	123
85°	31	36
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2675.5
2.5°	2661.2
5°	2652.7
7.5°	2621.4
10°	2564.5
12.5°	2513.3
15°	2456.3
17.5°	2385.1
20°	2299.8
22.5°	2202.9
25°	2097.7
27.5°	1975.3
30°	1821.6
32.5°	1636.6
35°	1394.7
37.5°	1127.1
40°	879.5
42.5°	683.0
45°	557.8
47.5°	475.3
50°	415.6
52.5°	367.1
55°	324.4
57.5°	293.2
60°	267.6
62.5°	241.9
65°	213.4
67.5°	187.9
70°	162.2
72.5°	139.5
75°	116.7
77.5°	93.9
80°	71.2
82.5°	51.2
85°	31.3
87.5°	14.2
90°	0.0



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— 0°-180°







(END OF REPORT)