

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: P582312

Luminaire Tested: **HC635D010-HM63040835-61NDW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582312
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-HM63040835-61NDW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" NARROW DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3685.4 lumens
Efficiency: N/A
Efficacy: 109.4 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

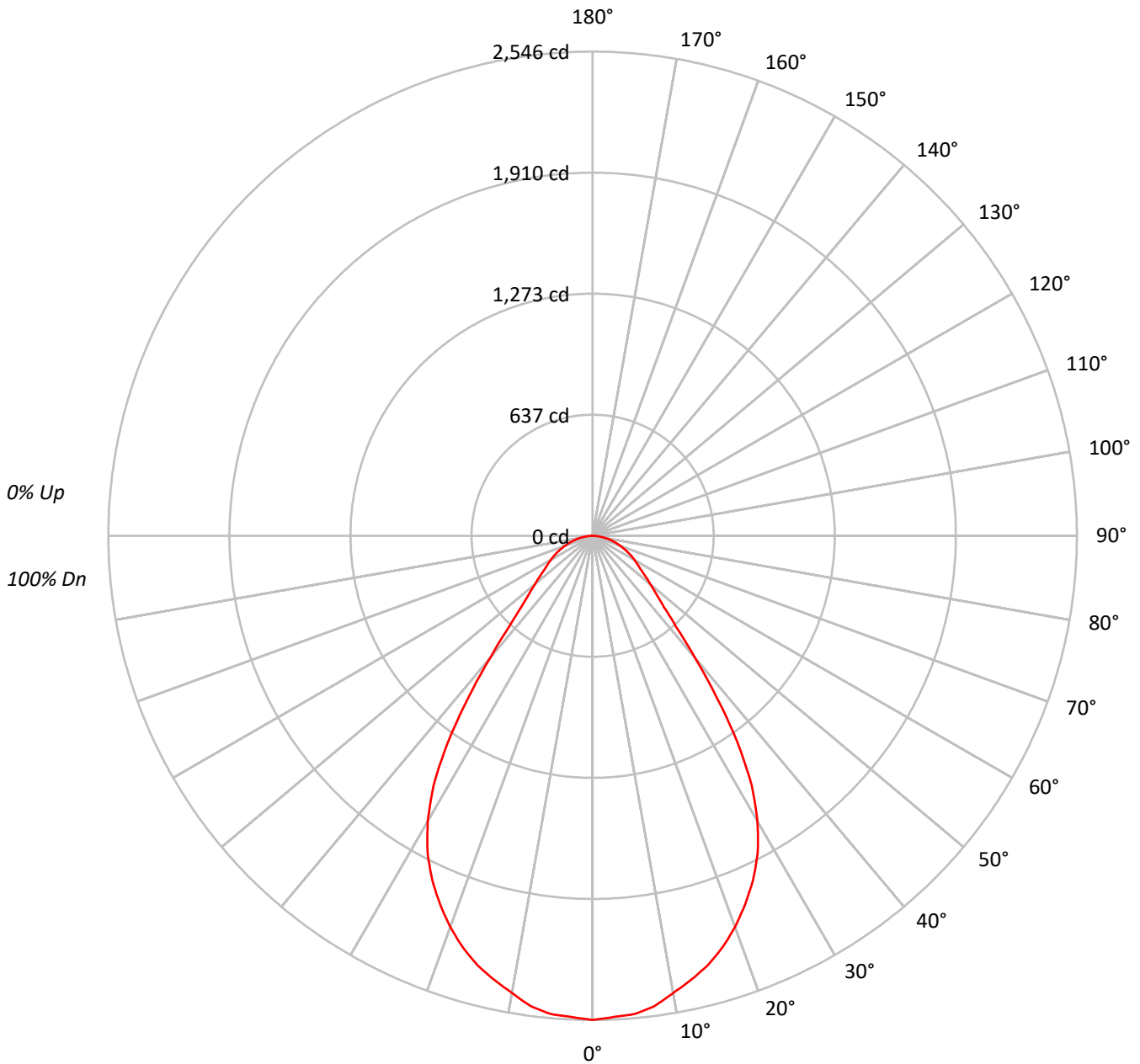
Input Watts (W): 33.7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			100
1	111	108	104	101	109	105	102	100	101	99	96	97	95	94	94	92	91	89			89
2	104	97	92	87	101	95	90	86	92	88	84	89	85	83	86	83	81	79			79
3	97	88	82	77	94	87	81	76	84	79	75	81	77	73	79	75	72	70			70
4	90	81	73	68	88	79	73	68	77	71	67	75	70	66	73	69	65	63			63
5	84	74	67	61	83	73	66	61	71	65	60	69	64	60	67	63	59	57			57
6	79	68	61	55	77	67	60	55	66	59	55	64	59	54	63	58	54	52			52
7	74	63	56	50	73	62	55	50	61	55	50	60	54	50	58	53	49	48			48
8	70	59	51	46	69	58	51	46	57	50	46	56	50	46	54	49	46	44			44
9	66	55	48	43	65	54	47	43	53	47	42	52	46	42	51	46	42	41			41
10	62	51	44	40	61	51	44	40	50	44	39	49	43	39	48	43	39	38			38

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	139589
5°	138933
10°	135864
15°	132674
20°	127685
25°	120757
30°	109745
35°	88827
40°	59905
45°	41167
50°	33730
55°	29514
60°	27914
65°	26358
70°	24748
75°	23532
80°	21373
85°	18744



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	238.3	6.5
10°-20°	656.5	17.8
20°-30°	912.1	24.7
30°-40°	812.1	22.0
40°-50°	431.1	11.7
50°-60°	281.9	7.6
60°-70°	202.0	5.5
70°-80°	117.2	3.2
80°-90°	34.3	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°	1806.9	49.0
0°-40°	2619.0	71.1
0°-60°	3332.0	90.4
0°-90°	3685.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3685.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2546	
5°	2525	238
15°	2338	656
25°	1996	912
35°	1327	812
45°	531	431
55°	309	282
65°	203	202
75°	111	117
85°	30	34
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2546.3
2.5°	2532.7
5°	2524.7
7.5°	2494.8
10°	2440.7
12.5°	2391.9
15°	2337.7
17.5°	2270.0
20°	2188.7
22.5°	2096.6
25°	1996.4
27.5°	1879.9
30°	1733.7
32.5°	1557.6
35°	1327.3
37.5°	1072.7
40°	837.1
42.5°	650.1
45°	531.0
47.5°	452.3
50°	395.5
52.5°	349.4
55°	308.8
57.5°	279.0
60°	254.6
62.5°	230.2
65°	203.2
67.5°	178.8
70°	154.4
72.5°	132.7
75°	111.1
77.5°	89.4
80°	67.7
82.5°	48.8
85°	29.8
87.5°	13.5
90°	0.0



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— 0°-180°







(END OF REPORT)