

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: P582042

Luminaire Tested: **HC625D010-HM60525840-61NDW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582042
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: HC625D010-HM60525840-61NDW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" NARROW DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2642.0 lumens
Efficiency: N/A
Efficacy: 98.6 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

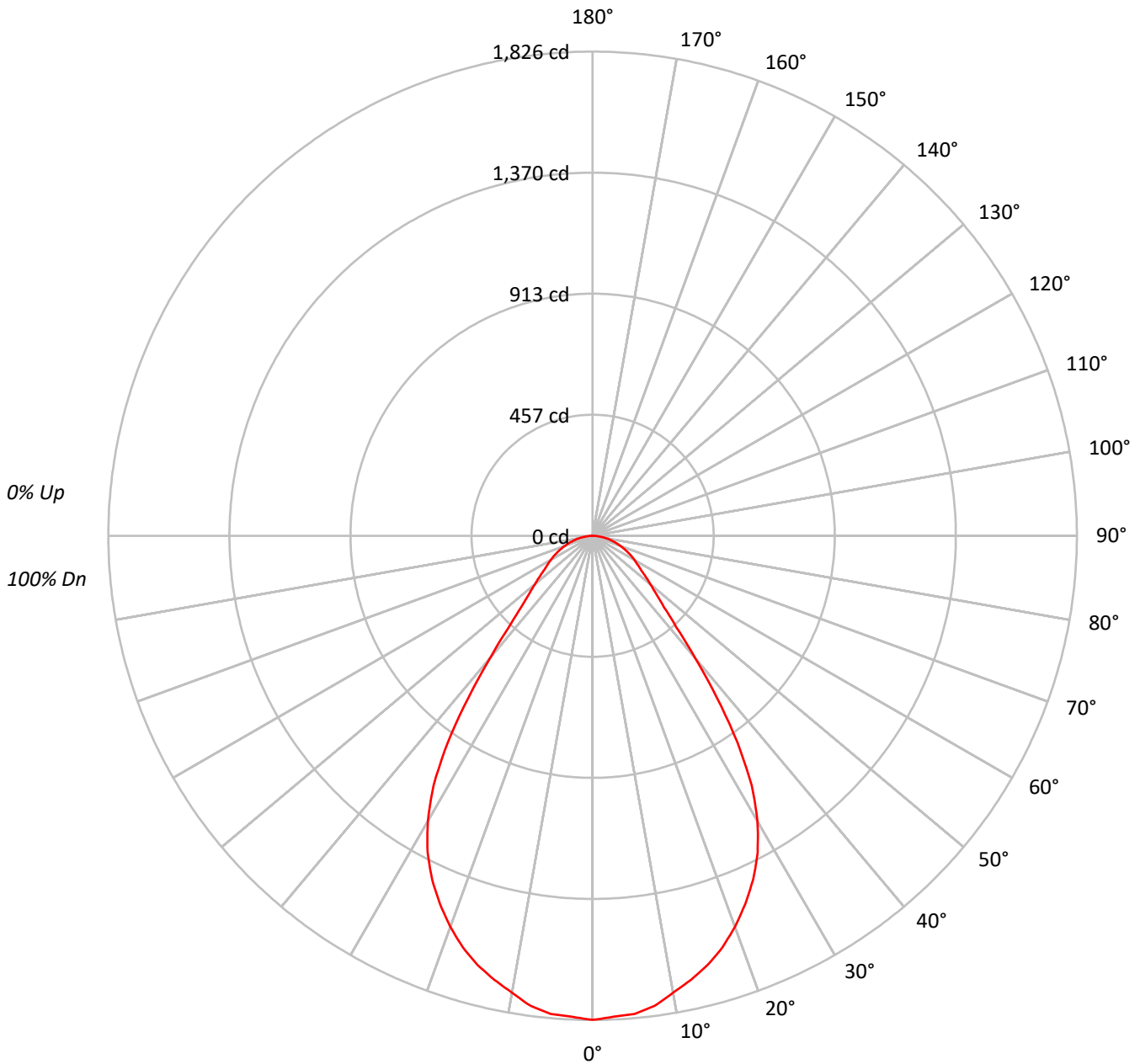
Input Watts (W): 26.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
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	63	51	44	40	61	51	44	40	50	44	39	49	43	39	48	43	39	38			38

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	100074
5°	99604
10°	97399
15°	95114
20°	91539
25°	86570
30°	78677
35°	63677
40°	42945
45°	29515
50°	24187
55°	21161
60°	20020
65°	18887
70°	17727
75°	16860
80°	15311
85°	13398



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	170.9	6.5
10°-20°	470.6	17.8
20°-30°	653.9	24.7
30°-40°	582.2	22.0
40°-50°	309.1	11.7
50°-60°	202.1	7.7
60°-70°	144.8	5.5
70°-80°	83.9	3.2
80°-90°	24.5	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°	1295.4	49.0
0°-40°	1877.5	71.1
0°-60°	2388.7	90.4
0°-90°	2642.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2642.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1826	
5°	1810	171
15°	1676	471
25°	1431	654
35°	952	582
45°	381	309
55°	221	202
65°	146	145
75°	80	84
85°	21	25
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1825.5
2.5°	1815.7
5°	1810.0
7.5°	1788.5
10°	1749.7
12.5°	1714.7
15°	1675.9
17.5°	1627.4
20°	1569.1
22.5°	1503.1
25°	1431.2
27.5°	1347.7
30°	1242.9
32.5°	1116.7
35°	951.5
37.5°	769.0
40°	600.1
42.5°	466.1
45°	380.7
47.5°	324.3
50°	283.6
52.5°	250.5
55°	221.4
57.5°	200.0
60°	182.6
62.5°	165.0
65°	145.6
67.5°	128.2
70°	110.6
72.5°	95.1
75°	79.6
77.5°	64.0
80°	48.5
82.5°	35.0
85°	21.3
87.5°	9.6
90°	0.0



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— 0°-180°







(END OF REPORT)