

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: P582402

Luminaire Tested: **HC635D010-HM63040940-61NDW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582402
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-HM63040940-61NDW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" NARROW DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3376.8 lumens
Efficiency: N/A
Efficacy: 100.2 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

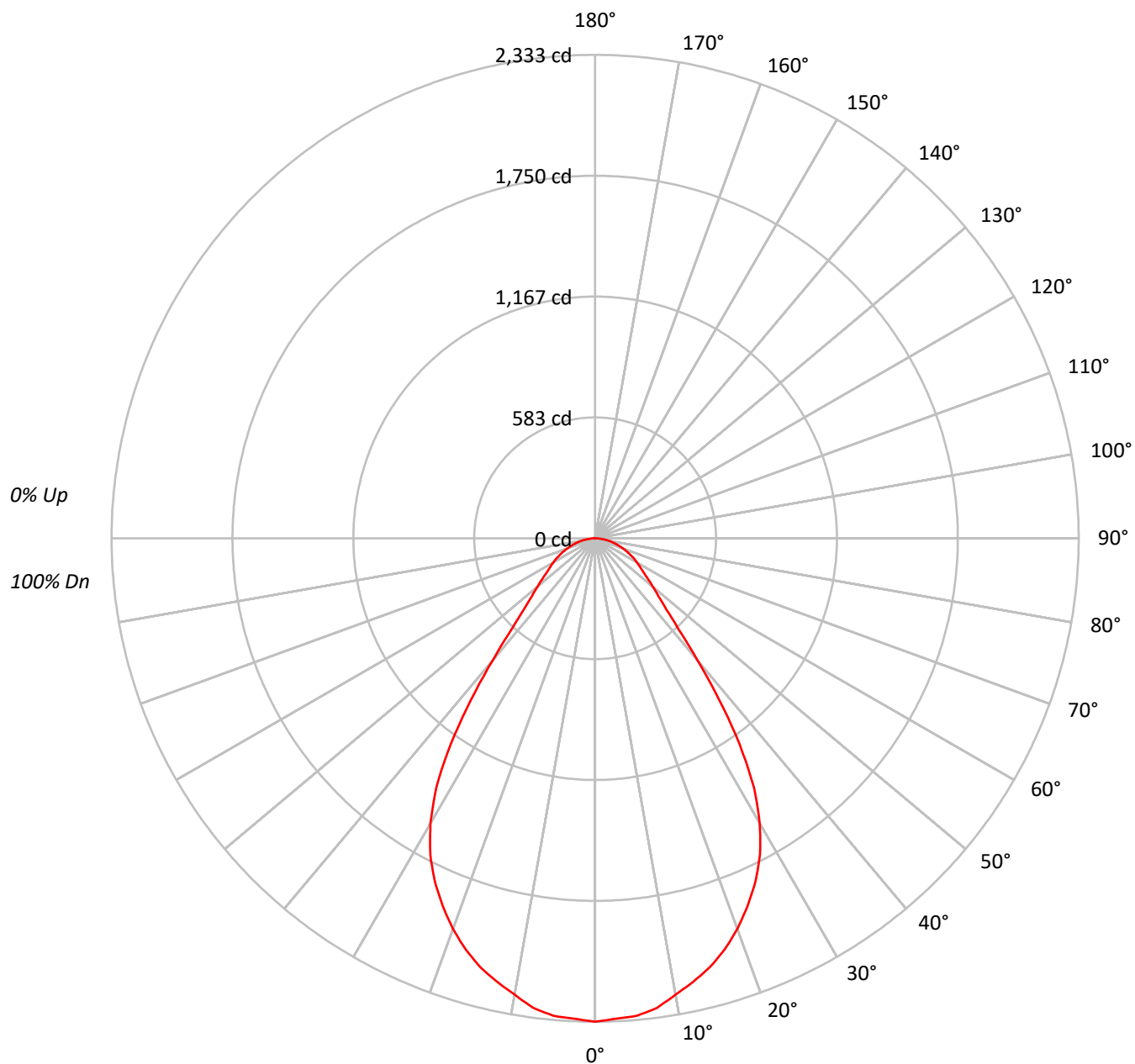
Input Watts (W): 33.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10		70	50	30	10		50	30	10		50	30	10		50	30	10
RCR																					
0	119	119	119	119		116	116	116	116		111	111	111		106	106	106		102	102	102
1	111	108	104	101		109	105	102	100		101	99	96		97	95	94		94	92	91
2	104	97	92	87		101	95	90	86		92	88	84		89	85	83		86	83	81
3	97	88	82	77		94	87	81	76		84	79	75		81	77	73		79	75	72
4	90	81	73	68		88	79	73	68		77	71	67		75	70	66		73	69	65
5	84	74	67	61		83	73	66	61		71	65	60		69	64	60		67	63	59
6	79	68	61	55		77	67	60	55		66	59	55		64	59	54		63	58	54
7	74	63	56	50		73	62	55	50		61	55	50		60	54	50		58	53	49
8	70	59	51	46		69	58	51	46		57	50	46		56	50	46		54	49	46
9	66	55	48	43		65	54	47	43		53	47	42		52	46	42		51	46	42
10	62	51	44	40		61	51	44	40		50	44	39		49	43	39		48	43	39

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	127901
5°	127294
10°	124486
15°	121561
20°	116998
25°	110650
30°	100553
35°	81385
40°	54889
45°	37717
50°	30907
55°	27048
60°	25579
65°	24140
70°	22664
75°	21562
80°	19605
85°	17171



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	218.4	6.5
10°-20°	601.5	17.8
20°-30°	835.7	24.7
30°-40°	744.0	22.0
40°-50°	395.0	11.7
50°-60°	258.3	7.7
60°-70°	185.1	5.5
70°-80°	107.3	3.2
80°-90°	31.4	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°	1655.6	49.0
0°-40°	2399.6	71.1
0°-60°	3053.0	90.4
0°-90°	3376.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3376.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2333	
5°	2313	218
15°	2142	602
25°	1829	836
35°	1216	744
45°	486	395
55°	283	258
65°	186	185
75°	102	107
85°	27	31
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2333.1
2.5°	2320.7
5°	2313.2
7.5°	2285.9
10°	2236.3
12.5°	2191.6
15°	2141.9
17.5°	2079.9
20°	2005.5
22.5°	1921.1
25°	1829.3
27.5°	1722.5
30°	1588.5
32.5°	1427.1
35°	1216.1
37.5°	982.8
40°	767.0
42.5°	595.6
45°	486.5
47.5°	414.5
50°	362.4
52.5°	320.2
55°	283.0
57.5°	255.7
60°	233.3
62.5°	211.0
65°	186.1
67.5°	163.8
70°	141.4
72.5°	121.6
75°	101.8
77.5°	81.9
80°	62.1
82.5°	44.7
85°	27.3
87.5°	12.4
90°	0.0



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— 0°-180°







(END OF REPORT)