

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: P582614

Luminaire Tested: **HC645D010-HM64560840-61MDH**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582614
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-5)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC645D010-HM64560840-61MDH
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" MEDIUM DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5080.4 lumens
Efficiency: N/A
Efficacy: 115.5 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.01 / 0.97
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

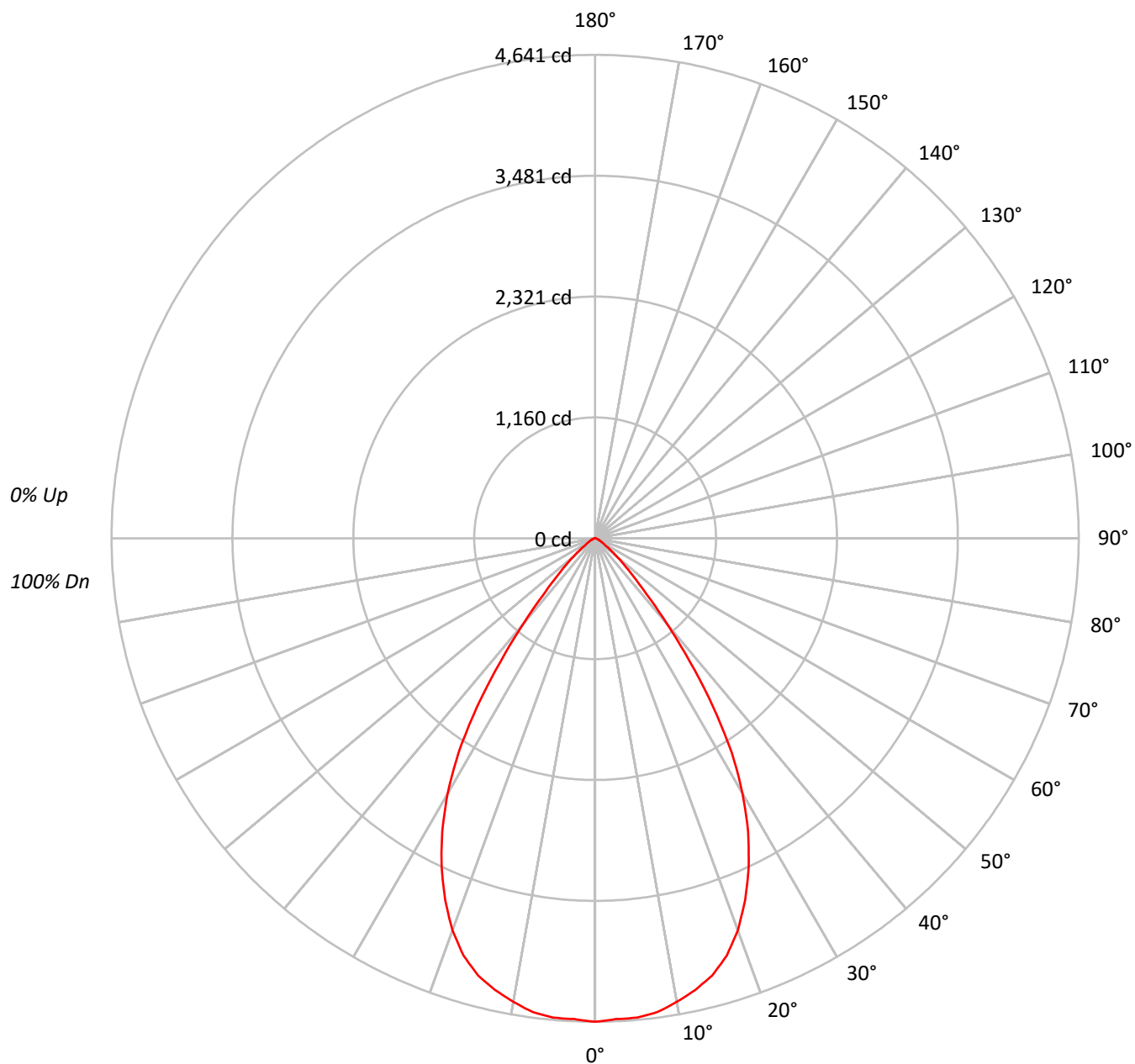
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	113	110	108	105		111	108	106	104		104	102	100		100	99	97		97	96	94
2	107	102	98	94		105	100	96	93		97	94	91		94	91	89		91	89	87
3	101	94	89	85		99	93	88	84		90	86	83		88	84	81		86	83	80
4	96	88	82	77		94	86	81	77		84	79	76		82	78	75		80	77	74
5	90	81	75	71		89	80	75	70		79	74	70		77	73	69		75	72	68
6	85	76	70	65		84	75	69	65		74	68	64		72	67	64		71	67	63
7	81	71	65	60		79	70	64	60		69	64	60		68	63	59		67	62	59
8	77	67	60	56		75	66	60	56		65	59	55		64	59	55		63	58	55
9	73	62	56	52		72	62	56	52		61	56	52		60	55	52		59	55	51
10	69	59	53	49		68	58	52	48		57	52	48		57	52	48		56	51	48

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	254442
5°	254237
10°	251582
15°	246522
20°	233529
25°	210889
30°	179148
35°	132267
40°	76500
45°	40601
50°	22942
55°	11995
60°	7872
65°	5578
70°	4023
75°	3029
80°	2273
85°	2264



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	437.8	8.6
10°-20°	1214.9	23.9
20°-30°	1585.7	31.2
30°-40°	1211.8	23.9
40°-50°	438.8	8.6
50°-60°	127.4	2.5
60°-70°	45.6	0.9
70°-80°	15.6	0.3
80°-90°	2.9	0.1
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°	3238.4	63.7
0°-40°	4450.2	87.6
0°-60°	5016.4	98.7
0°-90°	5080.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5080.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4641	
5°	4620	438
15°	4344	1215
25°	3486	1586
35°	1976	1212
45°	524	439
55°	126	127
65°	43	46
75°	14	16
85°	4	3
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4641.4
2.5°	4620.0
5°	4620.0
7.5°	4587.6
10°	4519.5
12.5°	4440.6
15°	4343.7
17.5°	4200.3
20°	4003.0
22.5°	3759.1
25°	3486.5
27.5°	3178.0
30°	2830.1
32.5°	2439.1
35°	1976.4
37.5°	1492.2
40°	1069.0
42.5°	738.9
45°	523.7
47.5°	376.7
50°	269.0
52.5°	190.1
55°	125.5
57.5°	89.6
60°	71.8
62.5°	57.4
65°	43.0
67.5°	35.9
70°	25.1
72.5°	17.9
75°	14.3
77.5°	10.8
80°	7.2
82.5°	3.6
85°	3.6
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)