

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: P581609

Luminaire Tested: **HC610D010-HM60525840-61NDH**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P581609
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-2)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC610D010-HM60525840-61NDH
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" NARROW DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1188.4 lumens
Efficiency: N/A
Efficacy: 120.0 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 0.89 / 0.89
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

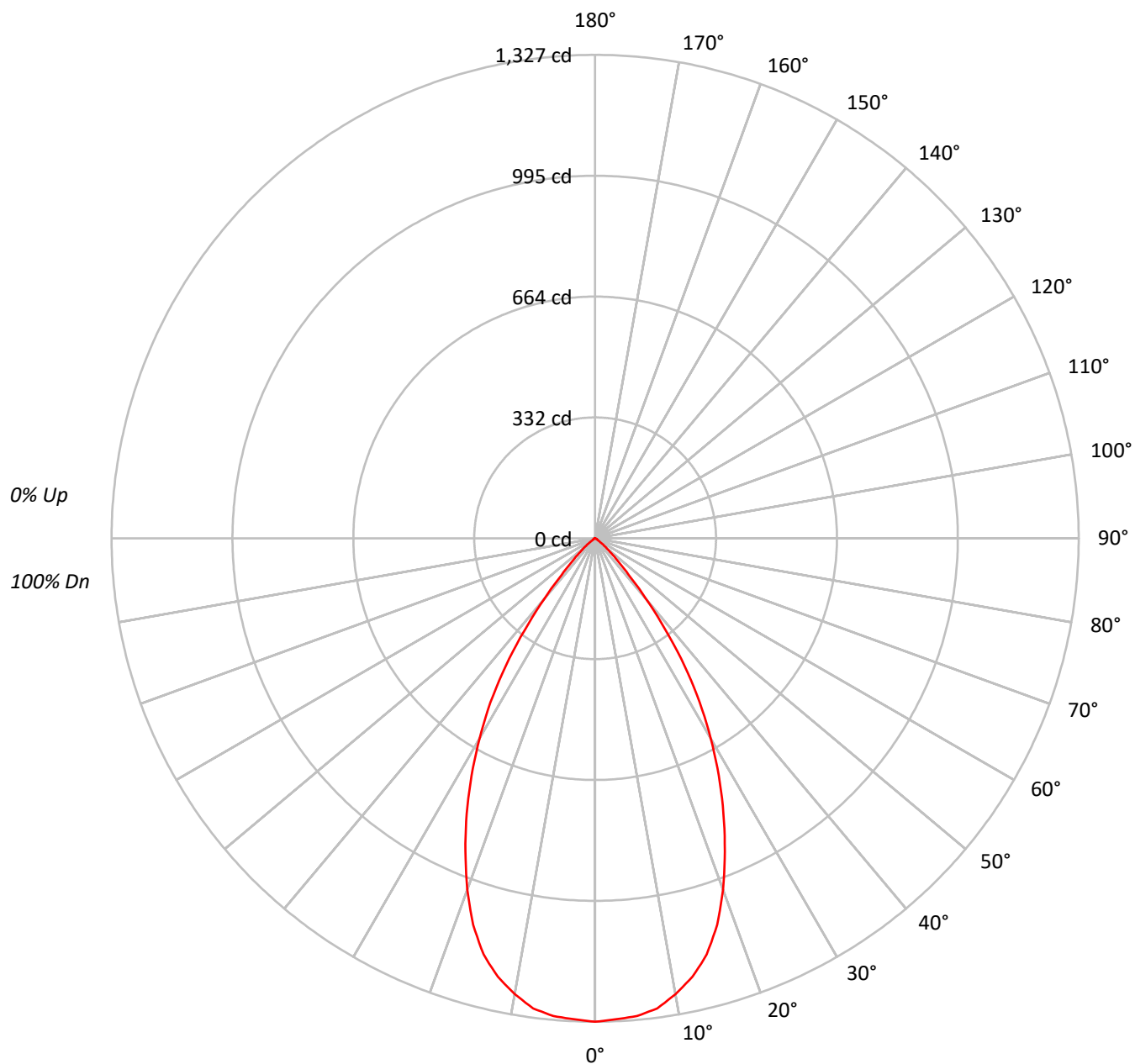
Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	111	108	106		111	109	106	104		105	103	101		101	99	98		97	96	95
2	108	103	99	96		106	101	98	94		98	95	92		95	93	90		92	90	89
3	102	96	91	87		100	95	90	86		92	88	85		90	86	84		87	85	82
4	97	90	84	80		95	88	83	79		86	82	78		84	81	78		82	79	77
5	92	84	78	74		91	83	77	73		81	76	73		79	75	72		78	74	71
6	88	79	73	68		86	78	72	68		76	71	68		75	71	67		74	70	67
7	83	74	68	64		82	73	67	63		72	67	63		71	66	63		70	66	62
8	79	70	64	59		78	69	63	59		68	63	59		67	62	59		66	62	59
9	75	66	60	56		74	65	59	56		64	59	55		63	59	55		62	58	55
10	72	62	56	52		71	62	56	52		61	56	52		60	55	52		59	55	52

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	72746
5°	72441
10°	70729
15°	67134
20°	59844
25°	50410
30°	40164
35°	28650
40°	15407
45°	6598
50°	3002
55°	1090
60°	537
65°	428
70°	401
75°	169
80°	253
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.3	10.5
10°-20°	327.9	27.6
20°-30°	379.8	32.0
30°-40°	262.6	22.1
40°-50°	75.9	6.4
50°-60°	13.1	1.1
60°-70°	3.4	0.3
70°-80°	1.3	0.1
80°-90°	0.3	0.0
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°	832.0	70.0
0°-40°	1094.6	92.1
0°-60°	1183.5	99.6
0°-90°	1188.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1188.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1327	
5°	1316	124
15°	1183	328
25°	833	380
35°	428	263
45°	85	76
55°	11	13
65°	3	3
75°	1	1
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1327.0
2.5°	1321.4
5°	1316.4
7.5°	1301.7
10°	1270.6
12.5°	1233.0
15°	1182.9
17.5°	1112.6
20°	1025.8
22.5°	930.1
25°	833.4
27.5°	734.3
30°	634.5
32.5°	534.6
35°	428.1
37.5°	317.6
40°	215.3
42.5°	136.0
45°	85.1
47.5°	54.9
50°	35.2
52.5°	21.3
55°	11.4
57.5°	6.6
60°	4.9
62.5°	4.1
65°	3.3
67.5°	2.5
70°	2.5
72.5°	1.6
75°	0.8
77.5°	0.8
80°	0.8
82.5°	0.8
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)