

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: P581641

Luminaire Tested: **HC610D010-HM60525930-61MDC**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P581641
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-4)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC610D010-HM60525930-61MDC
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" MEDIUM DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1055.0 lumens
Efficiency: N/A
Efficacy: 106.6 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.06 / 0.96
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

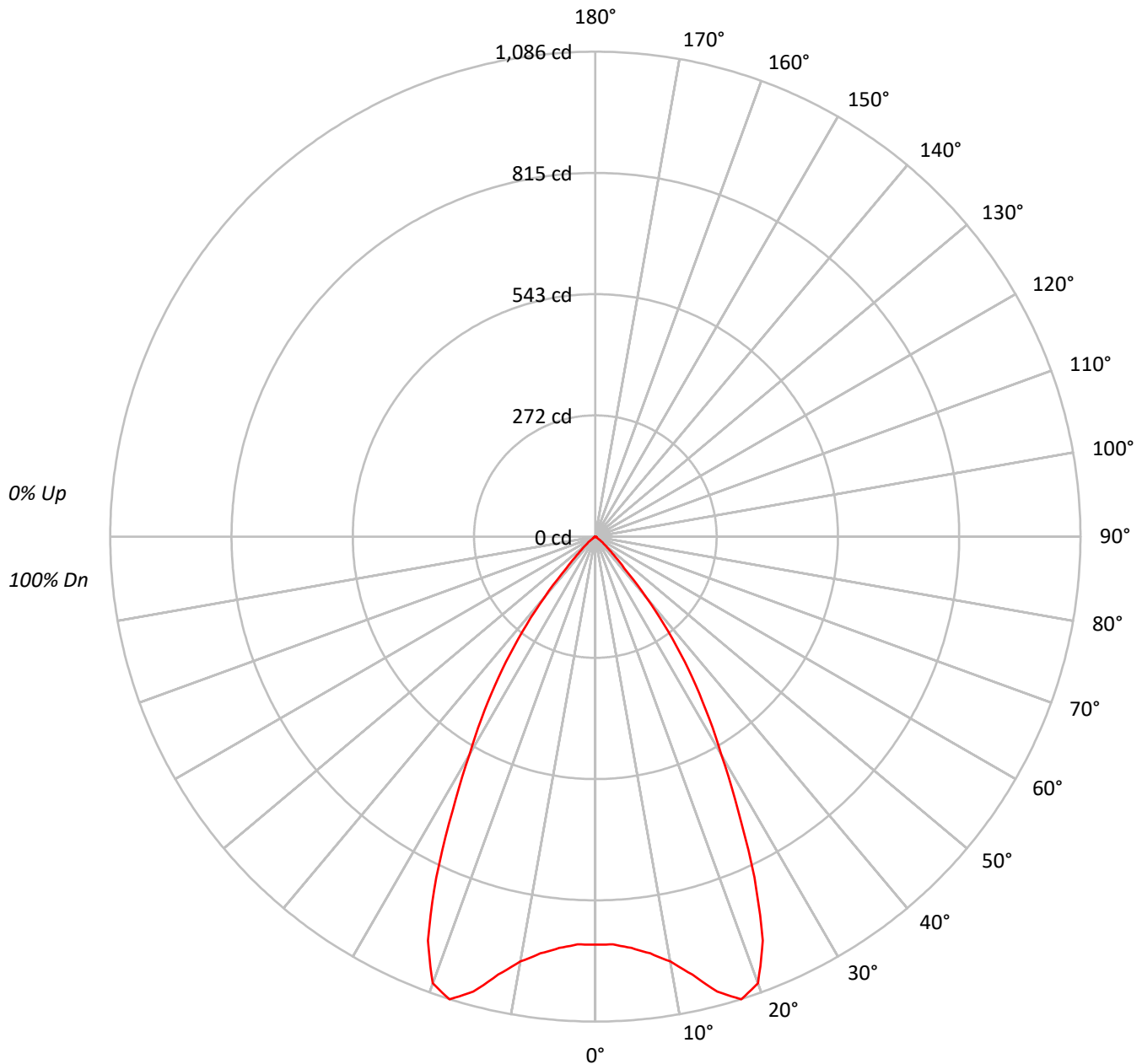
Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	114	111	108	106		111	109	106	104		105	103	101		101	99	98		97	96	95
2	108	103	99	96		106	101	98	95		98	95	93		95	93	91		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	89	83	79		86	82	79		84	81	78		83	79	77
5	92	84	78	74		91	83	78	73		81	76	73		80	75	72		78	74	72
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	63	59		78	69	63	59		68	63	59		67	62	59		66	62	58
9	75	66	60	56		74	65	59	55		64	59	55		63	58	55		62	58	55
10	72	62	56	52		71	61	56	52		61	55	52		60	55	52		59	55	52

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	50100
5°	50880
10°	53773
15°	59875
20°	62095
25°	50949
30°	35702
35°	24353
40°	12688
45°	4458
50°	1996
55°	640
60°	373
65°	259
70°	224
75°	148
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.6	8.5
10°-20°	296.7	28.1
20°-30°	377.8	35.8
30°-40°	225.2	21.3
40°-50°	54.6	5.2
50°-60°	8.4	0.8
60°-70°	2.1	0.2
70°-80°	0.7	0.1
80°-90°	0.0	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°	764.1	72.4
0°-40°	989.2	93.8
0°-60°	1052.2	99.7
0°-90°	1055.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1055.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	914	
5°	925	90
15°	1055	297
25°	842	378
35°	364	225
45°	58	55
55°	7	8
65°	2	2
75°	1	1
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	913.9
2.5°	913.9
5°	924.6
7.5°	941.4
10°	966.0
12.5°	1004.9
15°	1055.0
17.5°	1086.5
20°	1064.4
22.5°	979.4
25°	842.3
27.5°	691.1
30°	564.0
32.5°	461.0
35°	363.9
37.5°	268.3
40°	177.3
42.5°	95.7
45°	57.5
47.5°	36.1
50°	23.4
52.5°	14.0
55°	6.7
57.5°	4.0
60°	3.4
62.5°	2.7
65°	2.0
67.5°	1.4
70°	1.4
72.5°	0.7
75°	0.7
77.5°	0.7
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)