

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: P581839

Luminaire Tested: **HC620D010-HM60525827-61MDC**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P581839
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: HC620D010-HM60525827-61MDC
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" MEDIUM DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2110.9 lumens
Efficiency: N/A
Efficacy: 105.5 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

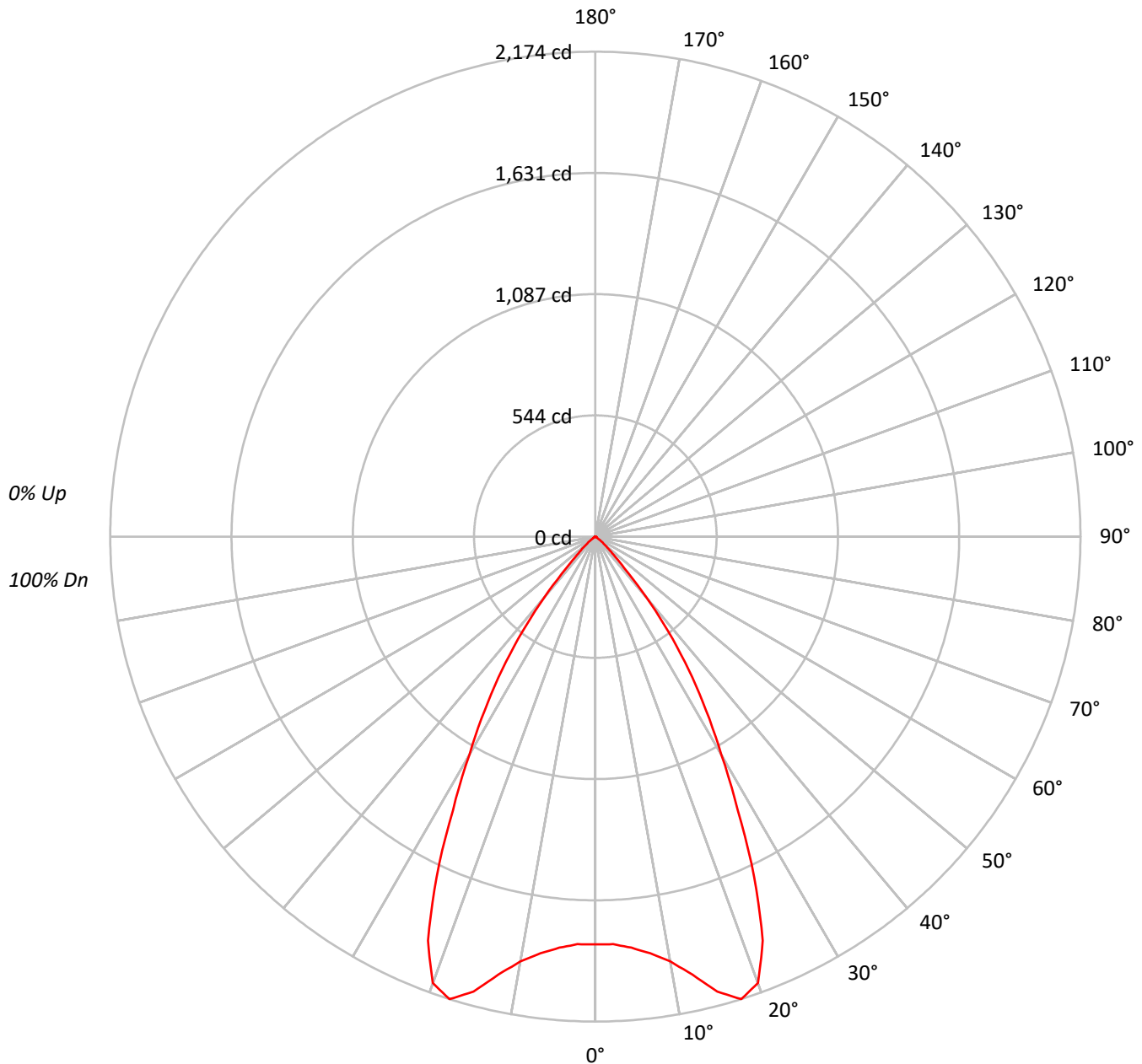
Input Watts (W): 20
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	100239
5°	101805
10°	107597
15°	119808
20°	124243
25°	101939
30°	71435
35°	48733
40°	25383
45°	8923
50°	4000
55°	1281
60°	735
65°	519
70°	433
75°	297
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	179.2	8.5
10°-20°	593.7	28.1
20°-30°	755.9	35.8
30°-40°	450.5	21.3
40°-50°	109.2	5.2
50°-60°	16.8	0.8
60°-70°	4.1	0.2
70°-80°	1.5	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°	1528.8	72.4
0°-40°	1979.3	93.8
0°-60°	2105.3	99.7
0°-90°	2110.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2110.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1828	
5°	1850	179
15°	2111	594
25°	1685	756
35°	728	451
45°	115	109
55°	13	17
65°	4	4
75°	1	1
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1828.5
2.5°	1828.5
5°	1850.0
7.5°	1883.4
10°	1932.9
12.5°	2010.5
15°	2111.0
17.5°	2173.9
20°	2129.7
22.5°	1959.8
25°	1685.3
27.5°	1382.7
30°	1128.5
32.5°	922.3
35°	728.2
37.5°	536.8
40°	354.7
42.5°	191.4
45°	115.1
47.5°	72.3
50°	46.9
52.5°	28.1
55°	13.4
57.5°	8.0
60°	6.7
62.5°	5.3
65°	4.0
67.5°	2.7
70°	2.7
72.5°	1.4
75°	1.4
77.5°	1.4
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)