

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: P581905

Luminaire Tested: **HC620D010-HM60525840-61WDW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P581905
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-9)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC620D010-HM60525840-61WDW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2204.4 lumens
Efficiency: N/A
Efficacy: 110.2 lumens/watt
Spacing Criteria (0/90/45): 1.11 / 1.11 / 1.09
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

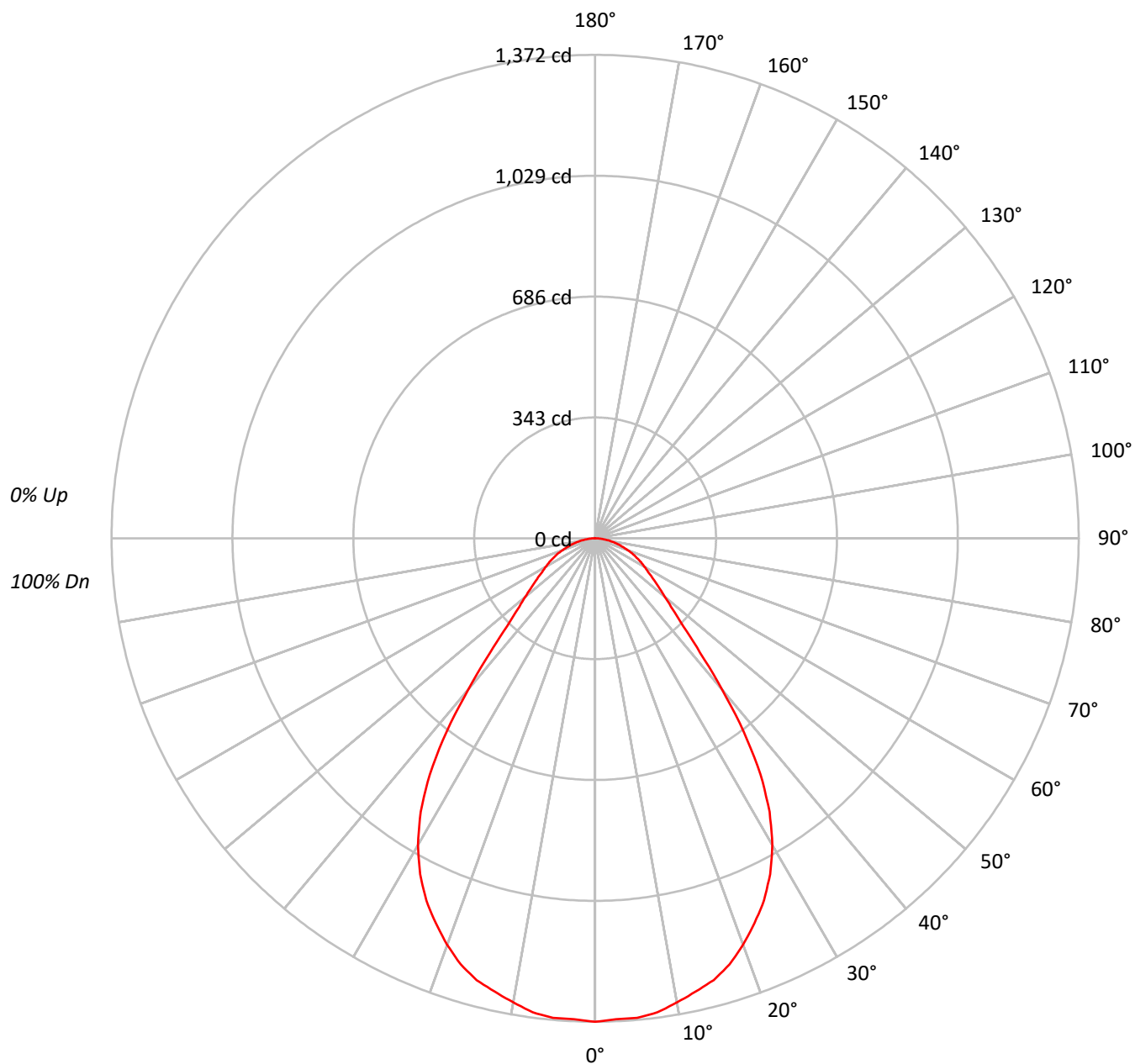
Input Watts (W): 20
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	111	107	104	101	108	105	102	99	101	98	96	97	95	93	94	92	90
2	103	97	91	87	101	95	90	86	91	87	84	88	85	82	85	83	80
3	96	87	81	76	94	86	80	75	83	78	74	81	76	72	78	74	71
4	89	80	72	67	87	78	72	66	76	70	66	74	69	65	72	67	64
5	84	73	65	60	82	72	65	59	70	64	59	68	63	58	66	61	58
6	78	67	59	54	76	66	59	54	64	58	53	63	57	53	61	56	52
7	73	62	54	49	72	61	54	49	60	53	48	58	52	48	57	52	48
8	69	57	50	45	68	57	50	45	55	49	44	54	48	44	53	48	44
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	44	41
10	61	50	43	38	60	49	42	38	48	42	38	47	42	38	47	41	38

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	75224
5°	75181
10°	74448
15°	73678
20°	71599
25°	68575
30°	63636
35°	54750
40°	39975
45°	27390
50°	22012
55°	19192
60°	17718
65°	16837
70°	15724
75°	14721
80°	13354
85°	11385



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.5	5.9
10°-20°	364.6	16.5
20°-30°	518.5	23.5
30°-40°	499.2	22.6
40°-50°	287.2	13.0
50°-60°	182.0	8.3
60°-70°	128.9	5.8
70°-80°	73.5	3.3
80°-90°	20.9	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°	1012.6	45.9
0°-40°	1511.8	68.6
0°-60°	1981.1	89.9
0°-90°	2204.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2204.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1372	
5°	1366	130
15°	1298	365
25°	1134	519
35°	818	499
45°	353	287
55°	201	182
65°	130	129
75°	70	73
85°	18	21
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1372.2
2.5°	1366.2
5°	1366.2
7.5°	1357.1
10°	1337.4
12.5°	1317.8
15°	1298.2
17.5°	1268.1
20°	1227.3
22.5°	1181.9
25°	1133.7
27.5°	1074.8
30°	1005.3
32.5°	920.8
35°	818.1
37.5°	692.8
40°	558.6
42.5°	440.7
45°	353.3
47.5°	297.4
50°	258.1
52.5°	226.5
55°	200.8
57.5°	178.1
60°	161.6
62.5°	146.4
65°	129.8
67.5°	114.8
70°	98.1
72.5°	83.0
75°	69.5
77.5°	55.9
80°	42.3
82.5°	30.1
85°	18.1
87.5°	7.6
90°	0.0



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— 0°-180°







(END OF REPORT)