

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: P581888

Luminaire Tested: **HC620D010-HM60525835-61WDWB**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P581888
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-10)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC620D010-HM60525835-61WDWB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2300.8 lumens
Efficiency: N/A
Efficacy: 115.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.05
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

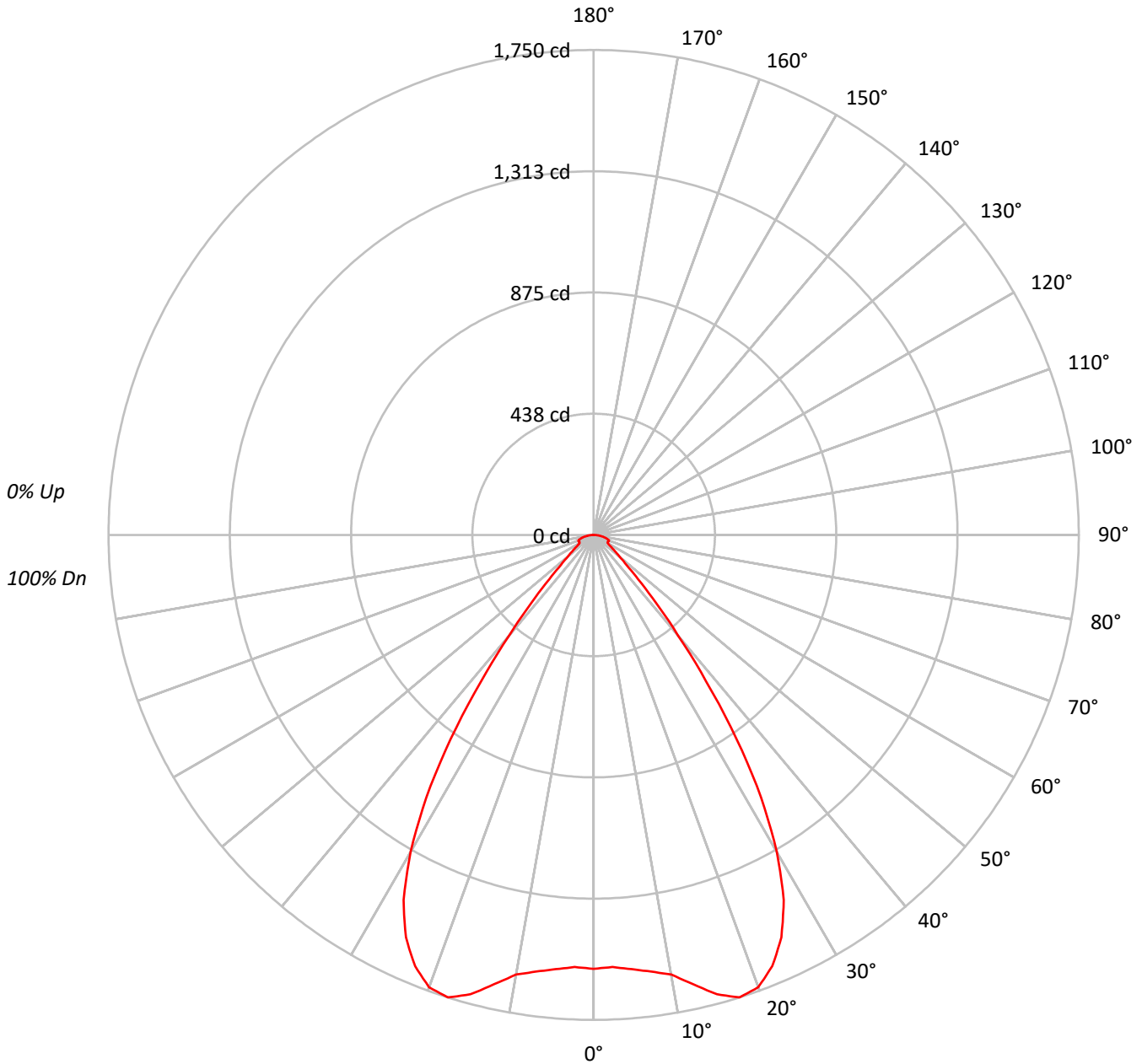
Input Watts (W): 20
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			0	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			
1	112	109	106	103	110	107	104	102	103	100	98	99	97	95	95	94	93	91			
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	82			
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	75			
4	93	85	78	73	91	83	78	73	81	76	72	79	75	71	77	73	70	69			
5	88	78	72	67	86	77	71	66	75	70	66	74	69	65	72	68	65	63			
6	83	73	66	61	81	72	66	61	70	65	60	69	64	60	67	63	60	58			
7	78	68	61	56	77	67	61	56	66	60	56	64	59	55	63	59	55	54			
8	74	63	57	52	73	63	56	52	61	56	52	60	55	51	59	55	51	50			
9	70	59	53	48	69	59	52	48	58	52	48	57	51	48	56	51	48	46			
10	66	56	49	45	65	55	49	45	54	48	45	53	48	44	53	48	44	43			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	85815
5°	86545
10°	89661
15°	97390
20°	101305
25°	96895
30°	83627
35°	60211
40°	33921
45°	17575
50°	10482
55°	7551
60°	6414
65°	7407
70°	9377
75°	9913
80°	9692
85°	9183



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.3	6.6
10°-20°	484.0	21.0
20°-30°	723.4	31.4
30°-40°	553.0	24.0
40°-50°	193.1	8.4
50°-60°	73.6	3.2
60°-70°	57.7	2.5
70°-80°	48.8	2.1
80°-90°	15.7	0.7
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°	1358.8	59.1
0°-40°	1911.8	83.1
0°-60°	2178.5	94.7
0°-90°	2300.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2300.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1565	
5°	1573	151
15°	1716	484
25°	1602	723
35°	900	553
45°	227	193
55°	79	74
65°	57	58
75°	47	49
85°	15	16
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1565.4
2.5°	1560.9
5°	1572.7
7.5°	1588.8
10°	1610.7
12.5°	1660.4
15°	1716.0
17.5°	1749.7
20°	1736.5
22.5°	1683.9
25°	1601.9
27.5°	1484.9
30°	1321.1
32.5°	1125.1
35°	899.7
37.5°	667.1
40°	474.0
42.5°	332.1
45°	226.7
47.5°	159.4
50°	122.9
52.5°	96.5
55°	79.0
57.5°	64.4
60°	58.5
62.5°	57.1
65°	57.1
67.5°	59.9
70°	58.5
72.5°	54.2
75°	46.8
77.5°	39.5
80°	30.7
82.5°	22.0
85°	14.6
87.5°	5.9
90°	0.0



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— 0°-180°







(END OF REPORT)