

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: P581958

Luminaire Tested: **HC620D010-HM60525935-61WDW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P581958
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-HM60525935-61WDW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1896.7 lumens
Efficiency: N/A
Efficacy: 94.8 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

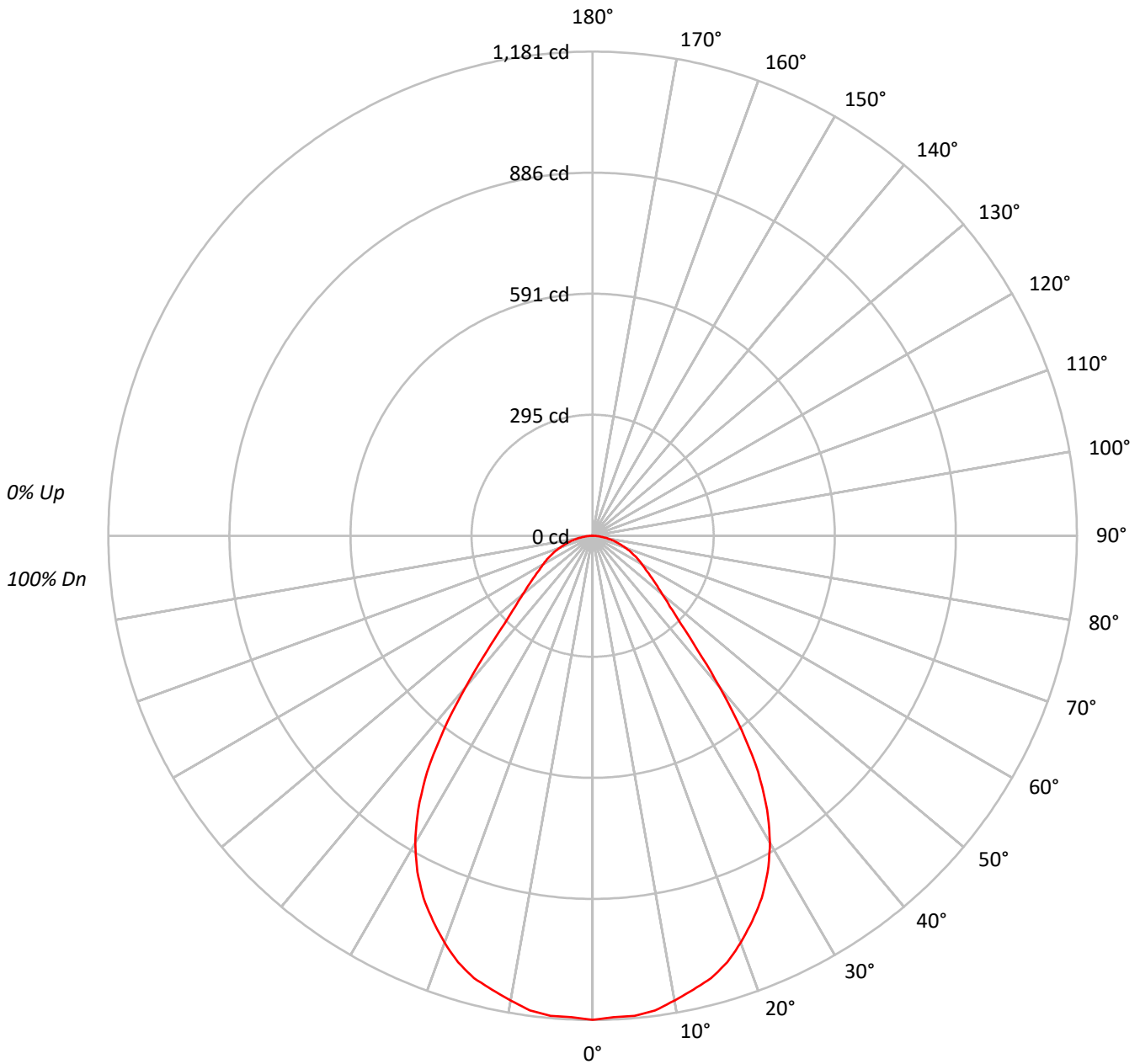
Input Watts (W): 20
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	111	107	104	101	108	105	102	99	101	98	96	97	95	93	94	92	90	89			
2	103	97	91	87	101	95	90	86	91	87	84	88	85	82	85	83	80	78			
3	96	87	81	76	94	86	80	75	83	78	74	81	76	72	78	74	71	69			
4	89	80	72	67	87	78	72	66	76	70	66	74	69	65	72	67	64	62			
5	84	73	65	60	82	72	65	59	70	64	59	68	63	58	66	62	58	56			
6	78	67	59	54	76	66	59	54	64	58	53	63	57	53	61	56	52	51			
7	73	62	54	49	72	61	54	49	60	53	48	58	52	48	57	52	48	46			
8	69	57	50	45	68	57	50	45	55	49	44	54	48	44	53	48	44	42			
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	44	41	39			
10	61	50	43	38	60	49	42	38	48	42	38	47	42	38	47	41	38	36			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	64726
5°	64687
10°	64060
15°	63394
20°	61605
25°	59005
30°	54755
35°	47114
40°	34393
45°	23568
50°	18942
55°	16516
60°	15240
65°	14489
70°	13528
75°	12645
80°	11491
85°	9812



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.4	5.9
10°-20°	313.7	16.5
20°-30°	446.2	23.5
30°-40°	429.6	22.6
40°-50°	247.2	13.0
50°-60°	156.6	8.3
60°-70°	110.9	5.8
70°-80°	63.2	3.3
80°-90°	18.0	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°	871.3	45.9
0°-40°	1300.9	68.6
0°-60°	1704.7	89.9
0°-90°	1896.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1896.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1181	
5°	1176	111
15°	1117	314
25°	976	446
35°	704	430
45°	304	247
55°	173	157
65°	112	111
75°	60	63
85°	16	18
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1180.7
2.5°	1175.5
5°	1175.5
7.5°	1167.7
10°	1150.8
12.5°	1133.9
15°	1117.0
17.5°	1091.1
20°	1056.0
22.5°	1017.1
25°	975.5
27.5°	924.9
30°	865.0
32.5°	792.3
35°	704.0
37.5°	596.2
40°	480.6
42.5°	379.3
45°	304.0
47.5°	255.8
50°	222.1
52.5°	194.9
55°	172.8
57.5°	153.3
60°	139.0
62.5°	126.0
65°	111.7
67.5°	98.7
70°	84.4
72.5°	71.5
75°	59.7
77.5°	48.0
80°	36.4
82.5°	25.9
85°	15.6
87.5°	6.5
90°	0.0



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— 0°-180°







(END OF REPORT)