

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: P581881

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

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P581881
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-12)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC620D010-HM60525835-61PSMDW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" PLASTIC TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2071.1 lumens
Efficiency: N/A
Efficacy: 103.6 lumens/watt
Spacing Criteria (0/90/45): 1.09 / 1.09 / 1.04
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

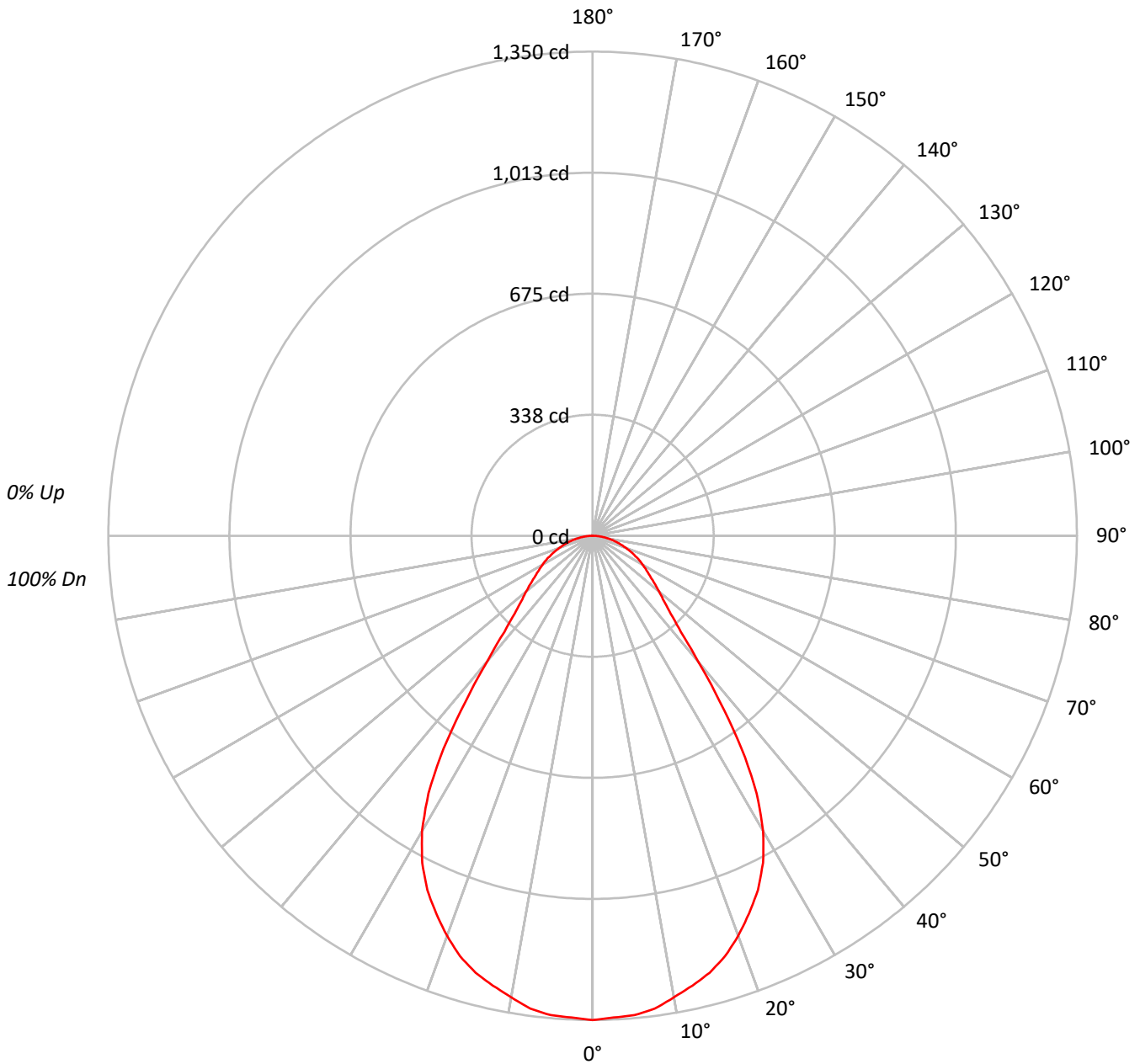
Input Watts (W): 20
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	93	92	90	88			
2	103	96	91	86	101	95	90	85	91	87	83	88	85	82	85	82	80	78			
3	96	87	81	75	94	86	80	75	83	78	73	80	76	72	78	74	71	69			
4	89	80	72	67	87	78	72	66	76	70	65	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	77	66	59	54	64	58	53	63	57	53	61	56	53	51			
7	73	62	54	49	72	61	54	49	60	53	49	58	53	48	57	52	48	46			
8	69	57	50	45	68	57	50	45	56	49	45	54	49	44	53	48	44	43			
9	65	53	46	41	64	53	46	41	52	46	41	51	45	41	50	45	41	39			
10	62	50	43	38	60	49	43	38	49	42	38	48	42	38	47	42	38	36			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	74029
5°	73828
10°	72727
15°	71572
20°	69224
25°	65925
30°	60193
35°	48466
40°	32668
45°	23824
50°	20588
55°	18590
60°	17641
65°	16694
70°	15708
75°	14869
80°	13828
85°	12894



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.0	6.1
10°-20°	354.2	17.1
20°-30°	497.6	24.0
30°-40°	442.9	21.4
40°-50°	247.5	12.0
50°-60°	176.3	8.5
60°-70°	128.3	6.2
70°-80°	74.3	3.6
80°-90°	23.1	1.1
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°	978.7	47.3
0°-40°	1421.6	68.6
0°-60°	1845.5	89.1
0°-90°	2071.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2071.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1350	
5°	1342	127
15°	1261	354
25°	1090	498
35°	724	443
45°	307	248
55°	194	176
65°	129	128
75°	70	74
85°	20	23
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1350.4
2.5°	1344.5
5°	1341.6
7.5°	1329.9
10°	1306.5
12.5°	1284.6
15°	1261.1
17.5°	1229.0
20°	1186.6
22.5°	1139.7
25°	1089.9
27.5°	1028.5
30°	950.9
32.5°	851.4
35°	724.2
37.5°	580.8
40°	456.5
42.5°	364.3
45°	307.3
47.5°	269.2
50°	241.4
52.5°	216.5
55°	194.5
57.5°	177.0
60°	160.9
62.5°	146.3
65°	128.7
67.5°	114.1
70°	98.0
72.5°	83.4
75°	70.2
77.5°	57.1
80°	43.8
82.5°	32.2
85°	20.5
87.5°	10.2
90°	0.0



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— 0°-180°







(END OF REPORT)