

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: P593153

Luminaire Tested: **HC620D010-HM60525950-61PSMDW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P593153
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-HM60525950-61PSMDW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" PLASTIC TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1862.5 lumens
Efficiency: N/A
Efficacy: 93.1 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

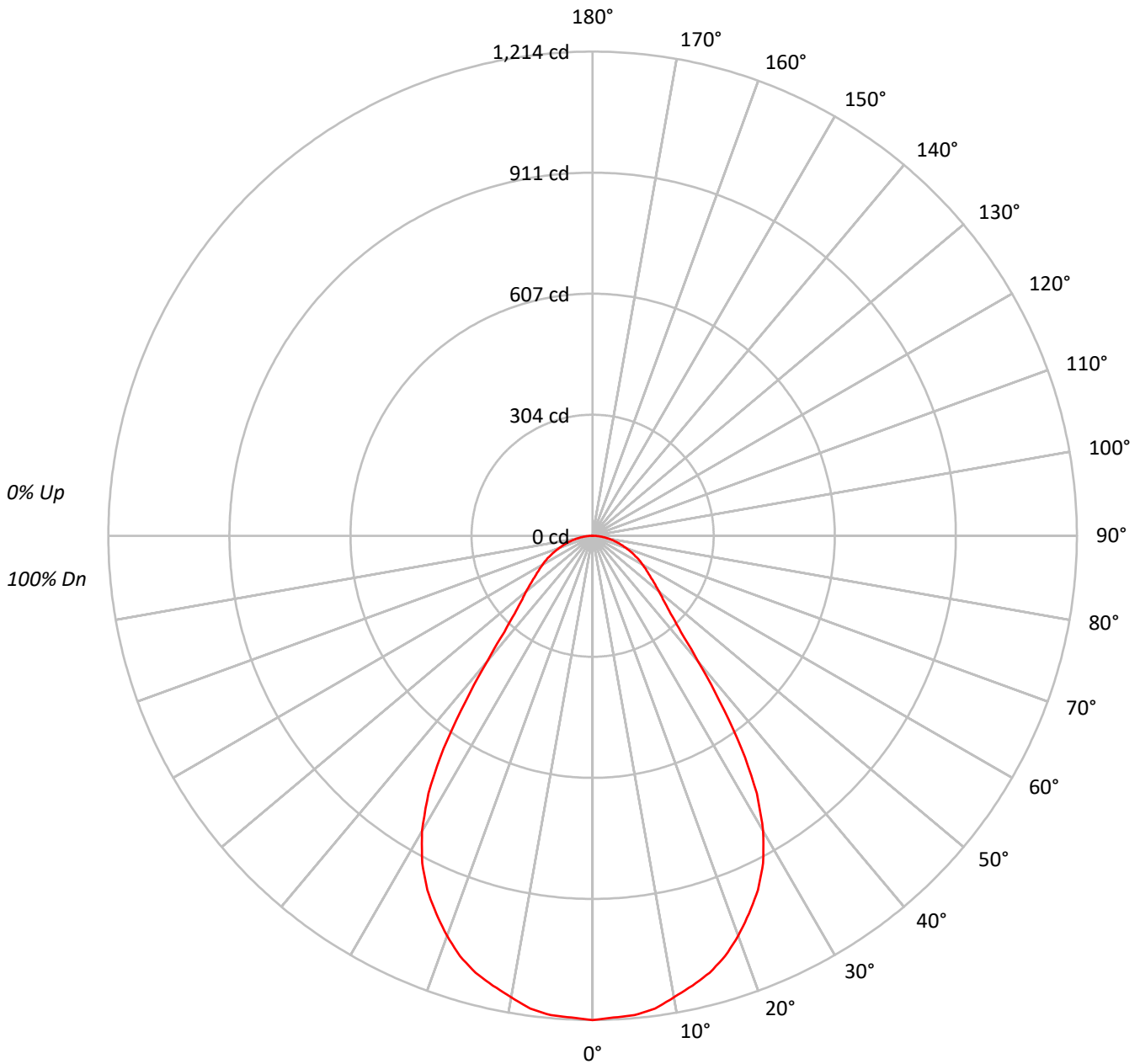
Input Watts (W): 20
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	66579
5°	66393
10°	65402
15°	64365
20°	62253
25°	59290
30°	54135
35°	43580
40°	29376
45°	21421
50°	18515
55°	16716
60°	15865
65°	15021
70°	14121
75°	13365
80°	12438
85°	11636



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.2	6.1
10°-20°	318.5	17.1
20°-30°	447.5	24.0
30°-40°	398.3	21.4
40°-50°	222.6	12.0
50°-60°	158.6	8.5
60°-70°	115.4	6.2
70°-80°	66.8	3.6
80°-90°	20.8	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°	880.2	47.3
0°-40°	1278.5	68.6
0°-60°	1659.7	89.1
0°-90°	1862.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1862.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1214	
5°	1206	114
15°	1134	318
25°	980	447
35°	651	398
45°	276	223
55°	175	159
65°	116	115
75°	63	67
85°	18	21
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1214.5
2.5°	1209.1
5°	1206.5
7.5°	1196.0
10°	1174.9
12.5°	1155.2
15°	1134.1
17.5°	1105.2
20°	1067.1
22.5°	1024.9
25°	980.2
27.5°	925.0
30°	855.2
32.5°	765.8
35°	651.2
37.5°	522.3
40°	410.5
42.5°	327.7
45°	276.3
47.5°	242.1
50°	217.1
52.5°	194.8
55°	174.9
57.5°	159.2
60°	144.7
62.5°	131.5
65°	115.8
67.5°	102.6
70°	88.1
72.5°	75.0
75°	63.1
77.5°	51.3
80°	39.4
82.5°	28.9
85°	18.5
87.5°	9.2
90°	0.0



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— 0°-180°







(END OF REPORT)