

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: P581948

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

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P581948
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-6)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC620D010-HM60525935-61MDW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" MEDIUM DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1794.1 lumens
Efficiency: N/A
Efficacy: 89.7 lumens/watt
Spacing Criteria (0/90/45): 1.08 / 1.08 / 1.03
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

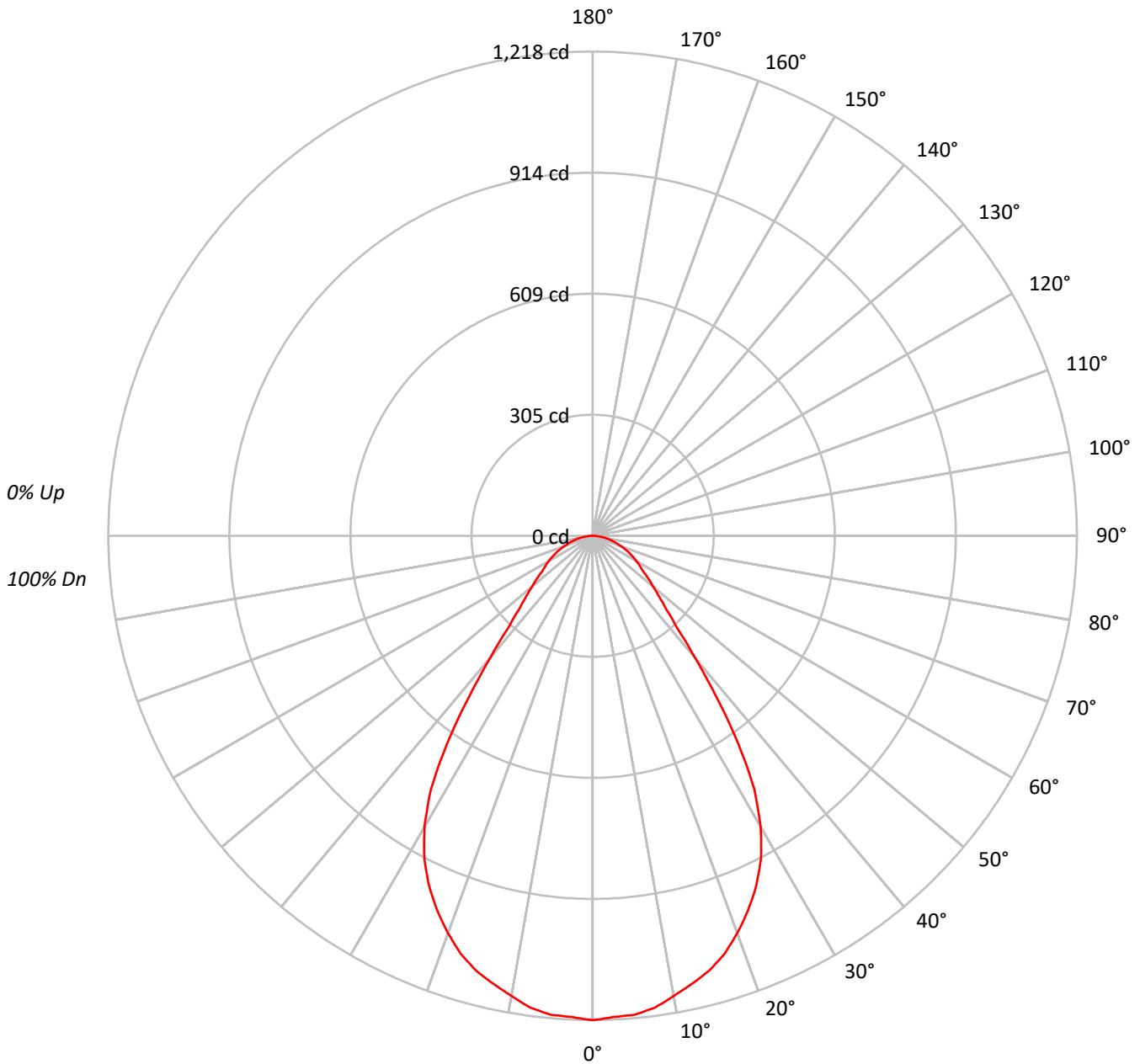
Input Watts (W): 20
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			100
1	111	108	104	101	109	105	102	100	101	99	96	97	95	94	94	92	91	89			89
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81	79			79
3	97	88	82	76	94	87	81	76	84	79	75	81	77	73	79	75	72	70			70
4	90	80	73	68	88	79	73	67	77	71	67	75	70	66	73	68	65	63			63
5	84	74	66	61	82	73	66	61	71	65	60	69	64	59	67	63	59	57			57
6	79	68	61	55	77	67	60	55	65	59	55	64	58	54	62	58	54	52			52
7	74	63	55	50	73	62	55	50	61	54	50	59	54	50	58	53	49	48			48
8	70	58	51	46	69	58	51	46	57	50	46	55	50	46	54	49	45	44			44
9	66	54	47	43	65	54	47	42	53	47	42	52	46	42	51	46	42	40			40
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	37			37

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	66787
5°	66547
10°	65435
15°	64274
20°	62060
25°	58842
30°	53527
35°	42764
40°	28532
45°	20343
50°	16946
55°	14766
60°	13946
65°	13140
70°	12069
75°	11289
80°	10260
85°	8995



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.4	6.4
10°-20°	318.0	17.7
20°-30°	444.4	24.8
30°-40°	391.4	21.8
40°-50°	211.5	11.8
50°-60°	141.4	7.9
60°-70°	100.2	5.6
70°-80°	56.4	3.1
80°-90°	16.4	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°	876.7	48.9
0°-40°	1268.2	70.7
0°-60°	1621.1	90.4
0°-90°	1794.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1794.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1218	
5°	1209	114
15°	1132	318
25°	973	444
35°	639	391
45°	262	211
55°	154	141
65°	101	100
75°	53	56
85°	14	16
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1218.3
2.5°	1211.9
5°	1209.3
7.5°	1197.5
10°	1175.5
12.5°	1154.6
15°	1132.5
17.5°	1102.7
20°	1063.8
22.5°	1020.8
25°	972.8
27.5°	916.9
30°	845.6
32.5°	757.2
35°	639.0
37.5°	510.4
40°	398.7
42.5°	314.3
45°	262.4
47.5°	227.3
50°	198.7
52.5°	175.4
55°	154.5
57.5°	140.3
60°	127.2
62.5°	114.3
65°	101.3
67.5°	88.4
70°	75.3
72.5°	63.7
75°	53.3
77.5°	42.8
80°	32.5
82.5°	23.3
85°	14.3
87.5°	6.5
90°	0.0



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— 0°-180°







(END OF REPORT)