

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: P593152

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

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P593152
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-3)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC620D010-HM60525950-61NDW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" NARROW DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1790.3 lumens
Efficiency: N/A
Efficacy: 89.5 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.06 / 1.03
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

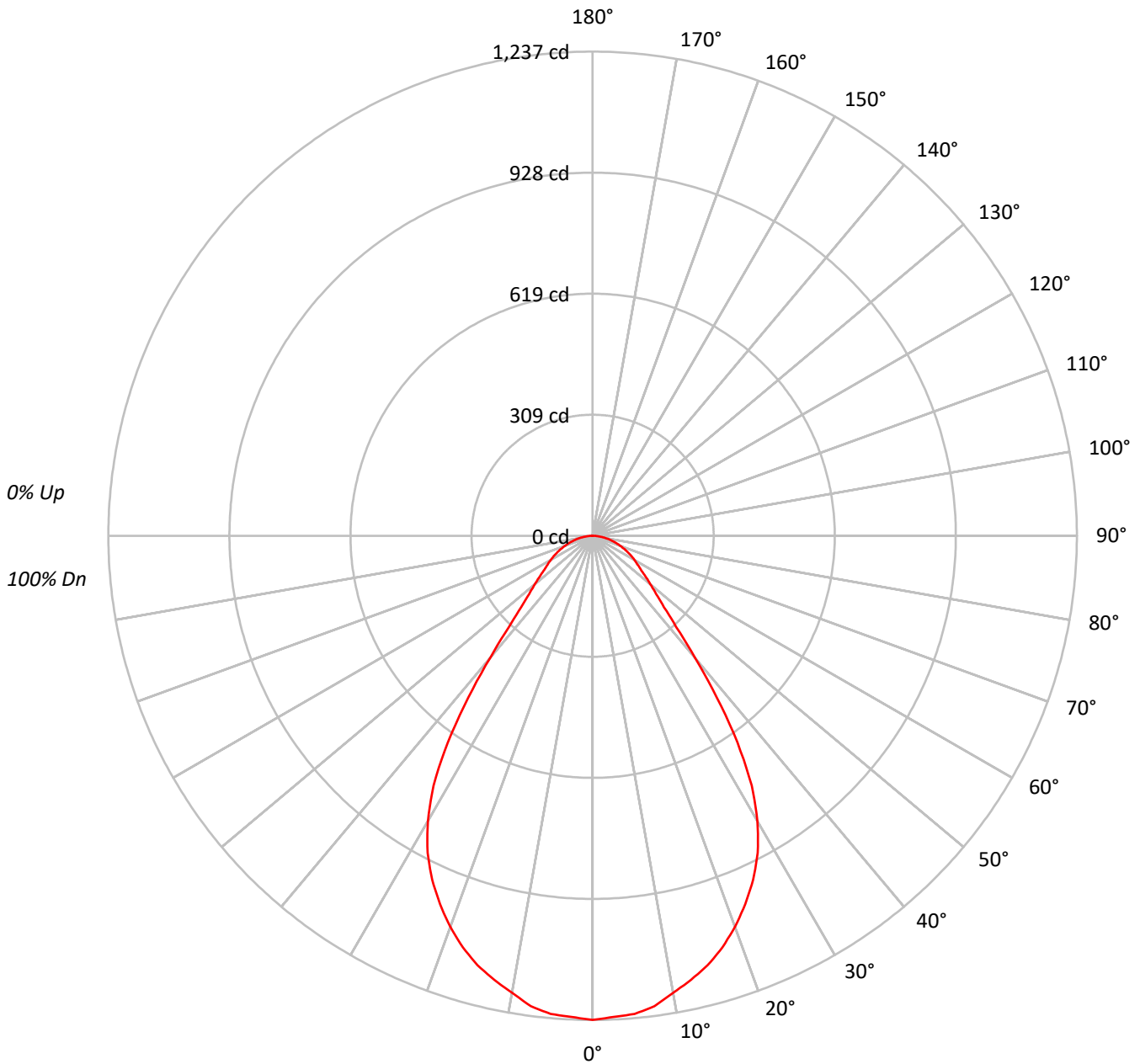
Input Watts (W): 20
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	83	86	83	81	79			79
3	97	88	82	77	94	87	81	76	84	79	75	81	77	73	79	75	72	70			70
4	90	81	73	68	88	79	73	68	77	71	67	75	70	66	73	69	65	63			63
5	84	74	67	61	83	73	66	61	71	65	60	69	64	60	67	63	59	57			57
6	79	68	61	55	77	67	60	55	66	59	55	64	59	54	63	58	54	52			52
7	74	63	56	50	73	62	55	50	61	55	50	60	54	50	58	53	49	48			48
8	70	59	51	46	69	58	51	46	57	50	46	56	50	46	54	49	46	44			44
9	66	55	48	43	65	54	47	43	53	47	42	52	46	42	51	46	42	41			41
10	62	51	44	40	61	51	44	40	50	44	39	49	43	39	48	43	39	38			38

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	67807
5°	67488
10°	65997
15°	64450
20°	62025
25°	58661
30°	53312
35°	43152
40°	29097
45°	19994
50°	16392
55°	14336
60°	13563
65°	12803
70°	12021
75°	11416
80°	10386
85°	9120



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.8	6.5
10°-20°	318.9	17.8
20°-30°	443.1	24.7
30°-40°	394.5	22.0
40°-50°	209.4	11.7
50°-60°	136.9	7.6
60°-70°	98.1	5.5
70°-80°	56.9	3.2
80°-90°	16.7	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°	877.7	49.0
0°-40°	1272.2	71.1
0°-60°	1618.6	90.4
0°-90°	1790.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1790.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1237	
5°	1226	116
15°	1136	319
25°	970	443
35°	645	394
45°	258	209
55°	150	137
65°	99	98
75°	54	57
85°	14	17
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1236.9
2.5°	1230.3
5°	1226.4
7.5°	1212.0
10°	1185.6
12.5°	1161.9
15°	1135.6
17.5°	1102.7
20°	1063.2
22.5°	1018.5
25°	969.8
27.5°	913.2
30°	842.2
32.5°	756.6
35°	644.8
37.5°	521.1
40°	406.6
42.5°	315.8
45°	257.9
47.5°	219.8
50°	192.2
52.5°	169.7
55°	150.0
57.5°	135.5
60°	123.7
62.5°	111.8
65°	98.7
67.5°	86.9
70°	75.0
72.5°	64.5
75°	53.9
77.5°	43.4
80°	32.9
82.5°	23.7
85°	14.5
87.5°	6.6
90°	0.0



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— 0°-180°







(END OF REPORT)