

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: P593143

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

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P593143
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-10)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC620D010-HM60525950-61WDWB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2069.1 lumens
Efficiency: N/A
Efficacy: 103.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.05
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

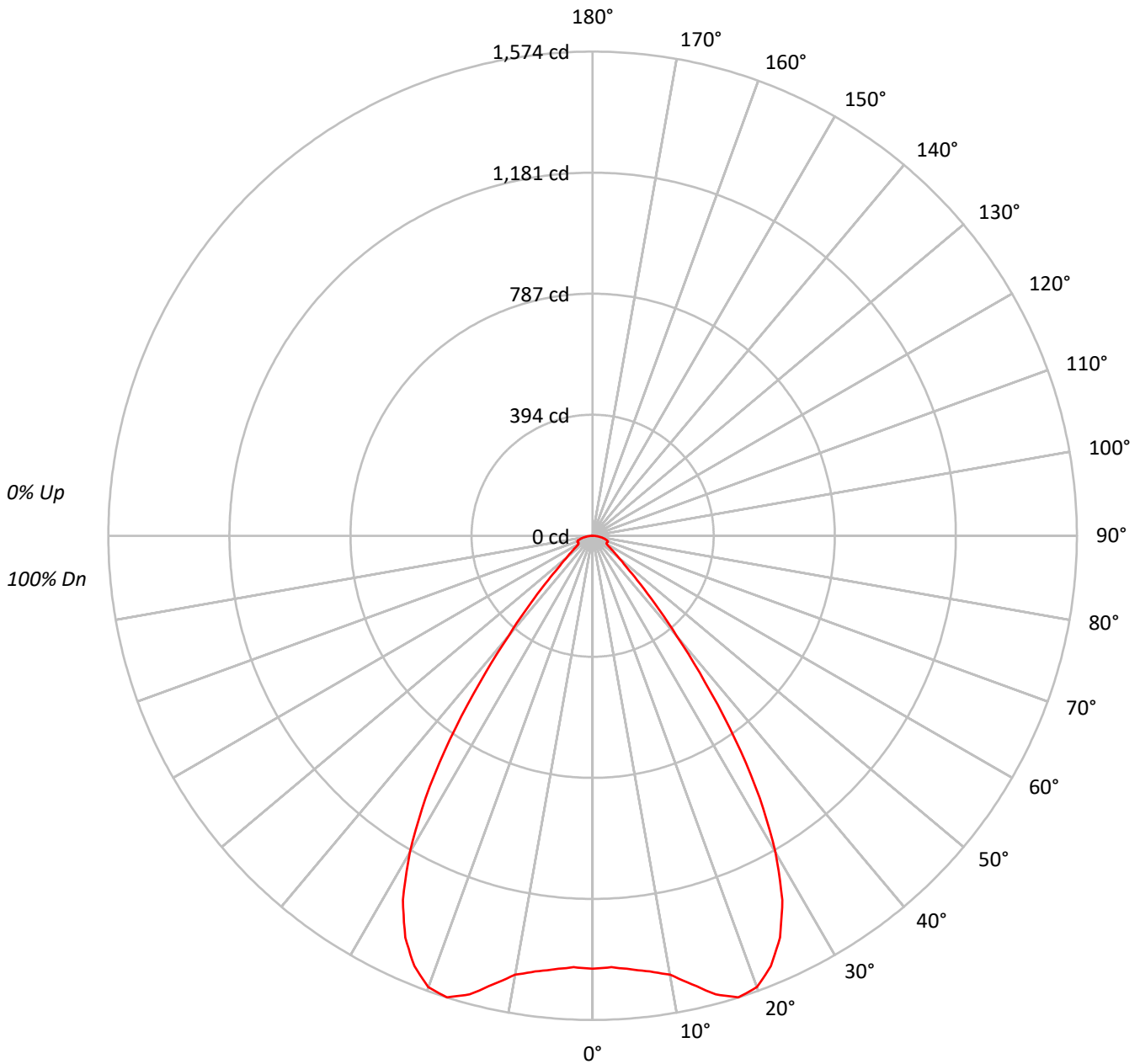
Input Watts (W): 20
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P593143

CATALOG NUMBER: HC620D010-HM60525950-61WDWB

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	112	109	106	103	110	107	104	102	103	100	98	99	97	95	95	94	93	91			91
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	82			82
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	75			75
4	93	85	78	73	91	83	78	73	81	76	72	79	75	71	77	73	70	69			69
5	88	78	72	67	86	77	71	66	75	70	66	74	69	65	72	68	65	63			63
6	83	73	66	61	81	72	66	61	70	65	60	69	64	60	67	63	60	58			58
7	78	68	61	56	77	67	61	56	66	60	56	64	59	55	63	59	55	54			54
8	74	63	57	52	73	63	56	52	61	56	52	60	55	51	59	55	51	50			50
9	70	59	53	48	69	59	52	48	58	52	48	57	51	48	56	51	48	46			46
10	66	56	49	45	65	55	49	45	54	48	45	53	48	44	53	48	44	43			43

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	77176
5°	77828
10°	80632
15°	87588
20°	91101
25°	87138
30°	75208
35°	54147
40°	30500
45°	15808
50°	9424
55°	6786
60°	5767
65°	6654
70°	8431
75°	8917
80°	8713
85°	8240



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.1	6.6
10°-20°	435.3	21.0
20°-30°	650.6	31.4
30°-40°	497.3	24.0
40°-50°	173.7	8.4
50°-60°	66.2	3.2
60°-70°	51.9	2.5
70°-80°	43.9	2.1
80°-90°	14.1	0.7
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°	1221.9	59.1
0°-40°	1719.3	83.1
0°-60°	1959.1	94.7
0°-90°	2069.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2069.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1408	
5°	1414	136
15°	1543	435
25°	1441	651
35°	809	497
45°	204	174
55°	71	66
65°	51	52
75°	42	44
85°	13	14
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1407.8
2.5°	1403.8
5°	1414.3
7.5°	1428.8
10°	1448.5
12.5°	1493.3
15°	1543.3
17.5°	1573.5
20°	1561.6
22.5°	1514.3
25°	1440.6
27.5°	1335.4
30°	1188.1
32.5°	1011.8
35°	809.1
37.5°	599.9
40°	426.2
42.5°	298.7
45°	203.9
47.5°	143.4
50°	110.5
52.5°	86.8
55°	71.0
57.5°	57.9
60°	52.6
62.5°	51.3
65°	51.3
67.5°	53.9
70°	52.6
72.5°	48.7
75°	42.1
77.5°	35.6
80°	27.6
82.5°	19.7
85°	13.1
87.5°	5.2
90°	0.0



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— 0°-180°







(END OF REPORT)