

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: P593125

Luminaire Tested: **HC620D010-HM60525850-61WDWB**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P593125
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-HM60525850-61WDWB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2374.9 lumens
Efficiency: N/A
Efficacy: 118.7 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

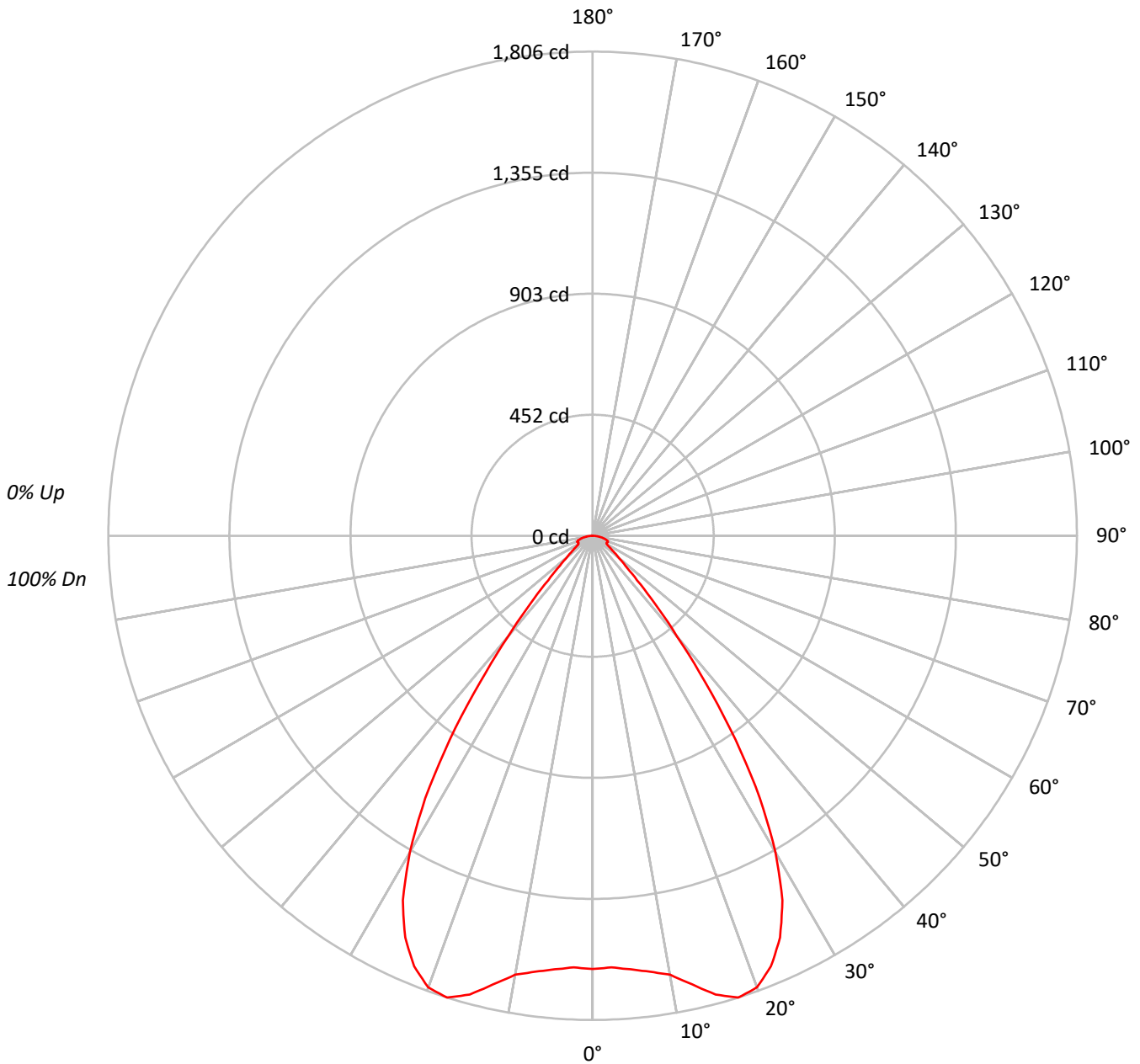
Input Watts (W): 20
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P593125

CATALOG NUMBER: HC620D010-HM60525850-61WDWB

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°	88578
5°	89335
10°	92550
15°	100528
20°	104566
25°	100016
30°	86317
35°	62151
40°	35008
45°	18149
50°	10823
55°	7799
60°	6622
65°	7640
70°	9681
75°	10230
80°	10008
85°	9498



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.2	6.6
10°-20°	499.6	21.0
20°-30°	746.7	31.4
30°-40°	570.8	24.0
40°-50°	199.4	8.4
50°-60°	76.0	3.2
60°-70°	59.6	2.5
70°-80°	50.4	2.1
80°-90°	16.2	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°	1402.5	59.1
0°-40°	1973.3	83.1
0°-60°	2248.7	94.7
0°-90°	2374.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2374.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1616	
5°	1623	156
15°	1771	500
25°	1654	747
35°	929	571
45°	234	199
55°	82	76
65°	59	60
75°	48	50
85°	15	16
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1615.8
2.5°	1611.2
5°	1623.4
7.5°	1639.9
10°	1662.6
12.5°	1713.9
15°	1771.3
17.5°	1806.0
20°	1792.4
22.5°	1738.1
25°	1653.5
27.5°	1532.7
30°	1363.6
32.5°	1161.2
35°	928.7
37.5°	688.6
40°	489.2
42.5°	342.7
45°	234.1
47.5°	164.6
50°	126.9
52.5°	99.7
55°	81.6
57.5°	66.4
60°	60.4
62.5°	58.9
65°	58.9
67.5°	61.9
70°	60.4
72.5°	55.9
75°	48.3
77.5°	40.8
80°	31.7
82.5°	22.7
85°	15.1
87.5°	6.0
90°	0.0



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— 0°-180°







(END OF REPORT)