

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: P582860

Luminaire Tested: **HC605D010-HM60525827-61WDWB**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582860
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: HC605D010-HM60525827-61WDWB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 698.2 lumens
Efficiency: N/A
Efficacy: 116.4 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

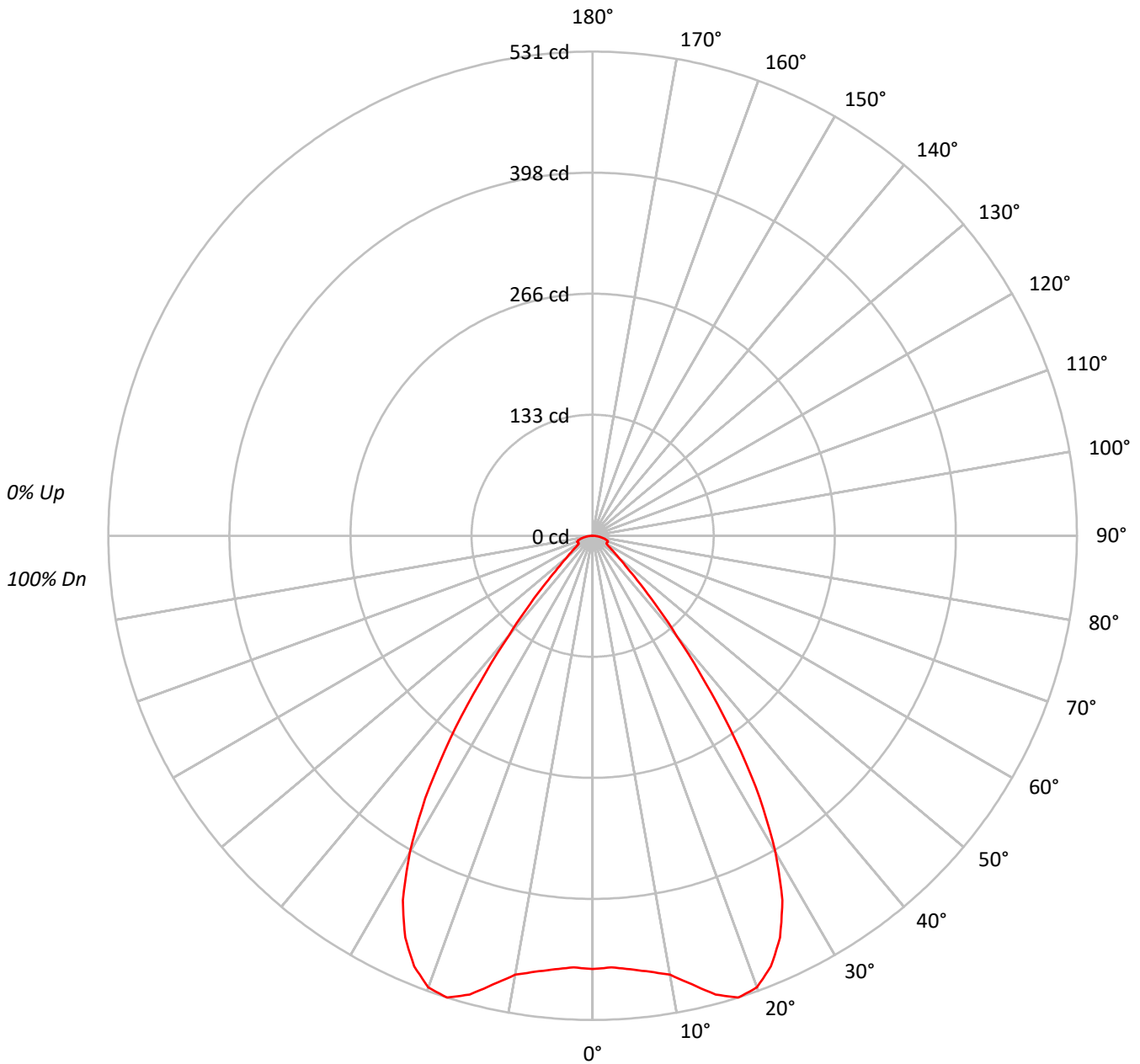
Input Watts (W): 6
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	26045
5°	26260
10°	27209
15°	29557
20°	30744
25°	29403
30°	25377
35°	18270
40°	10291
45°	5334
50°	3181
55°	2294
60°	1941
65°	2244
70°	2837
75°	3008
80°	2968
85°	2768



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.9	6.6
10°-20°	146.9	21.0
20°-30°	219.5	31.4
30°-40°	167.8	24.0
40°-50°	58.6	8.4
50°-60°	22.3	3.2
60°-70°	17.5	2.5
70°-80°	14.8	2.1
80°-90°	4.8	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°	412.3	59.1
0°-40°	580.2	83.1
0°-60°	661.1	94.7
0°-90°	698.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	698.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	475	
5°	477	46
15°	521	147
25°	486	220
35°	273	168
45°	69	59
55°	24	22
65°	17	17
75°	14	15
85°	4	5
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	475.1
2.5°	473.7
5°	477.2
7.5°	482.2
10°	488.8
12.5°	503.9
15°	520.8
17.5°	531.0
20°	527.0
22.5°	511.0
25°	486.1
27.5°	450.6
30°	400.9
32.5°	341.4
35°	273.0
37.5°	202.5
40°	143.8
42.5°	100.8
45°	68.8
47.5°	48.4
50°	37.3
52.5°	29.3
55°	24.0
57.5°	19.5
60°	17.7
62.5°	17.3
65°	17.3
67.5°	18.2
70°	17.7
72.5°	16.4
75°	14.2
77.5°	12.0
80°	9.4
82.5°	6.7
85°	4.4
87.5°	1.8
90°	0.0



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— 0°-180°







(END OF REPORT)