

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: P592981

Luminaire Tested: **HC605D010-HM60525850-61WDWB**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P592981
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-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: 787.5 lumens
Efficiency: N/A
Efficacy: 131.3 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

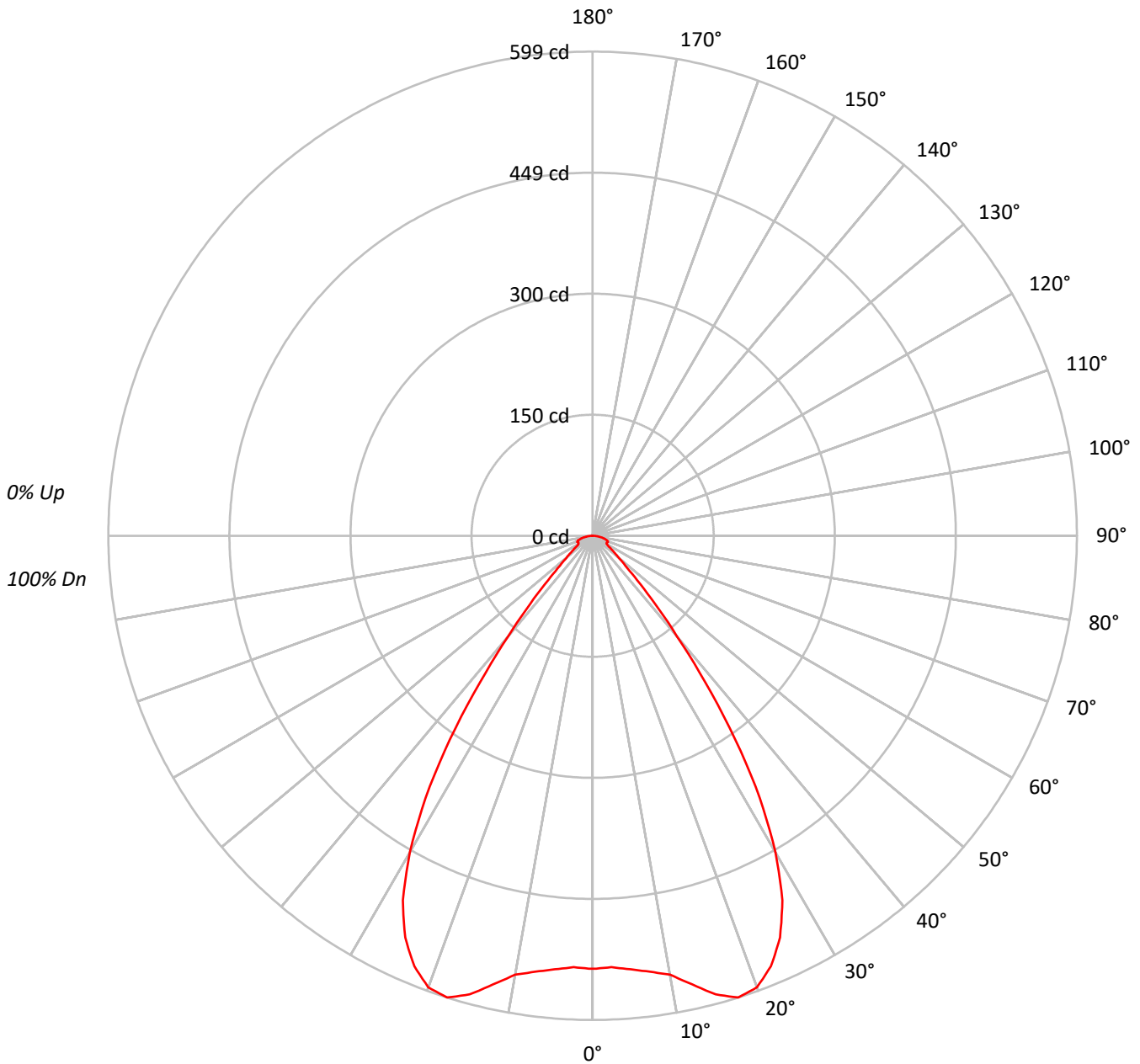
Input Watts (W): 6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	29373
5°	29622
10°	30689
15°	33337
20°	34676
25°	33171
30°	28625
35°	20606
40°	11615
45°	6016
50°	3582
55°	2581
60°	2193
65°	2529
70°	3206
75°	3389
80°	3315
85°	3145



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.8	6.6
10°-20°	165.7	21.0
20°-30°	247.6	31.4
30°-40°	189.3	24.0
40°-50°	66.1	8.4
50°-60°	25.2	3.2
60°-70°	19.8	2.5
70°-80°	16.7	2.1
80°-90°	5.4	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°	465.1	59.1
0°-40°	654.4	83.1
0°-60°	745.7	94.7
0°-90°	787.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	787.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	536	
5°	538	52
15°	587	166
25°	548	248
35°	308	189
45°	78	66
55°	27	25
65°	20	20
75°	16	17
85°	5	5
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	535.8
2.5°	534.3
5°	538.3
7.5°	543.9
10°	551.3
12.5°	568.4
15°	587.4
17.5°	598.9
20°	594.4
22.5°	576.4
25°	548.4
27.5°	508.3
30°	452.2
32.5°	385.1
35°	307.9
37.5°	228.4
40°	162.3
42.5°	113.7
45°	77.6
47.5°	54.6
50°	42.0
52.5°	33.0
55°	27.0
57.5°	22.0
60°	20.0
62.5°	19.5
65°	19.5
67.5°	20.6
70°	20.0
72.5°	18.5
75°	16.0
77.5°	13.6
80°	10.5
82.5°	7.5
85°	5.0
87.5°	2.0
90°	0.0



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— 0°-180°







(END OF REPORT)