

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: P582856

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

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582856
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-11)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC605D010-HM60525827-61WDBB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, BLACK BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 586.0 lumens
Efficiency: N/A
Efficacy: 97.7 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 1.32 / 1.14
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

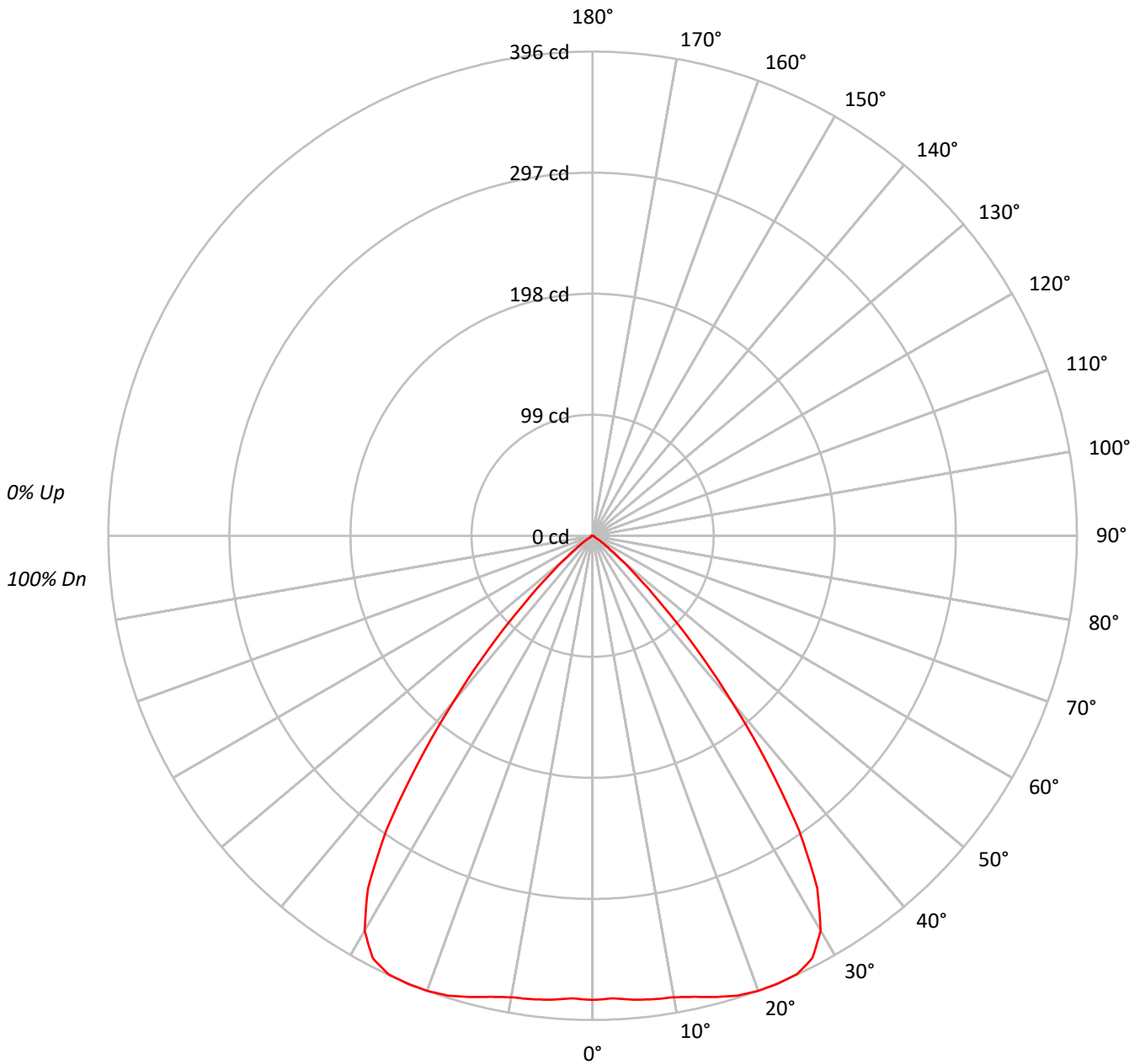
Input Watts (W): 6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	113	110	107	105	110	108	105	103	104	102	100	100	98	97	97	95	94	92			92
2	107	101	97	93	104	100	95	92	96	93	90	93	90	88	90	88	86	85			85
3	100	93	88	83	98	92	87	83	89	85	81	87	83	80	84	81	79	77			77
4	95	86	80	75	93	85	79	75	83	78	74	81	76	73	79	75	72	71			71
5	89	80	73	68	87	79	73	68	77	72	67	75	70	67	73	69	66	65			65
6	84	74	67	62	82	73	67	62	71	66	62	70	65	61	69	64	61	59			59
7	79	68	62	57	77	68	61	57	66	61	57	65	60	56	64	59	56	54			54
8	74	64	57	52	73	63	57	52	62	56	52	61	56	52	60	55	52	50			50
9	70	59	53	48	69	59	53	48	58	52	48	57	52	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°	20810
5°	20961
10°	21331
15°	22168
20°	23102
25°	23929
30°	23605
35°	19669
40°	12616
45°	6295
50°	2499
55°	851
60°	252
65°	182
70°	144
75°	191
80°	158
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	36.4	6.2
10°-20°	110.8	18.9
20°-30°	180.9	30.9
30°-40°	177.3	30.3
40°-50°	68.0	11.6
50°-60°	10.0	1.7
60°-70°	1.5	0.3
70°-80°	0.8	0.1
80°-90°	0.2	0.0
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°	328.2	56.0
0°-40°	505.5	86.3
0°-60°	583.5	99.6
0°-90°	586.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	586.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	380	
5°	381	36
15°	391	111
25°	396	181
35°	294	177
45°	81	68
55°	9	10
65°	1	2
75°	1	1
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	379.6
2.5°	378.7
5°	380.9
7.5°	382.3
10°	383.2
12.5°	386.2
15°	390.6
17.5°	394.3
20°	396.0
22.5°	396.4
25°	395.6
27.5°	389.4
30°	372.9
32.5°	341.8
35°	293.9
37.5°	234.8
40°	176.3
42.5°	125.7
45°	81.2
47.5°	49.7
50°	29.3
52.5°	16.8
55°	8.9
57.5°	4.0
60°	2.3
62.5°	1.8
65°	1.4
67.5°	1.4
70°	0.9
72.5°	0.9
75°	0.9
77.5°	0.5
80°	0.5
82.5°	0.5
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)