

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: P583291

Luminaire Tested: **HC607D010-HM60525827-61WDW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P583291
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-9)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC607D010-HM60525827-61WDW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 857.8 lumens
Efficiency: N/A
Efficacy: 107.2 lumens/watt
Spacing Criteria (0/90/45): 1.11 / 1.11 / 1.09
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

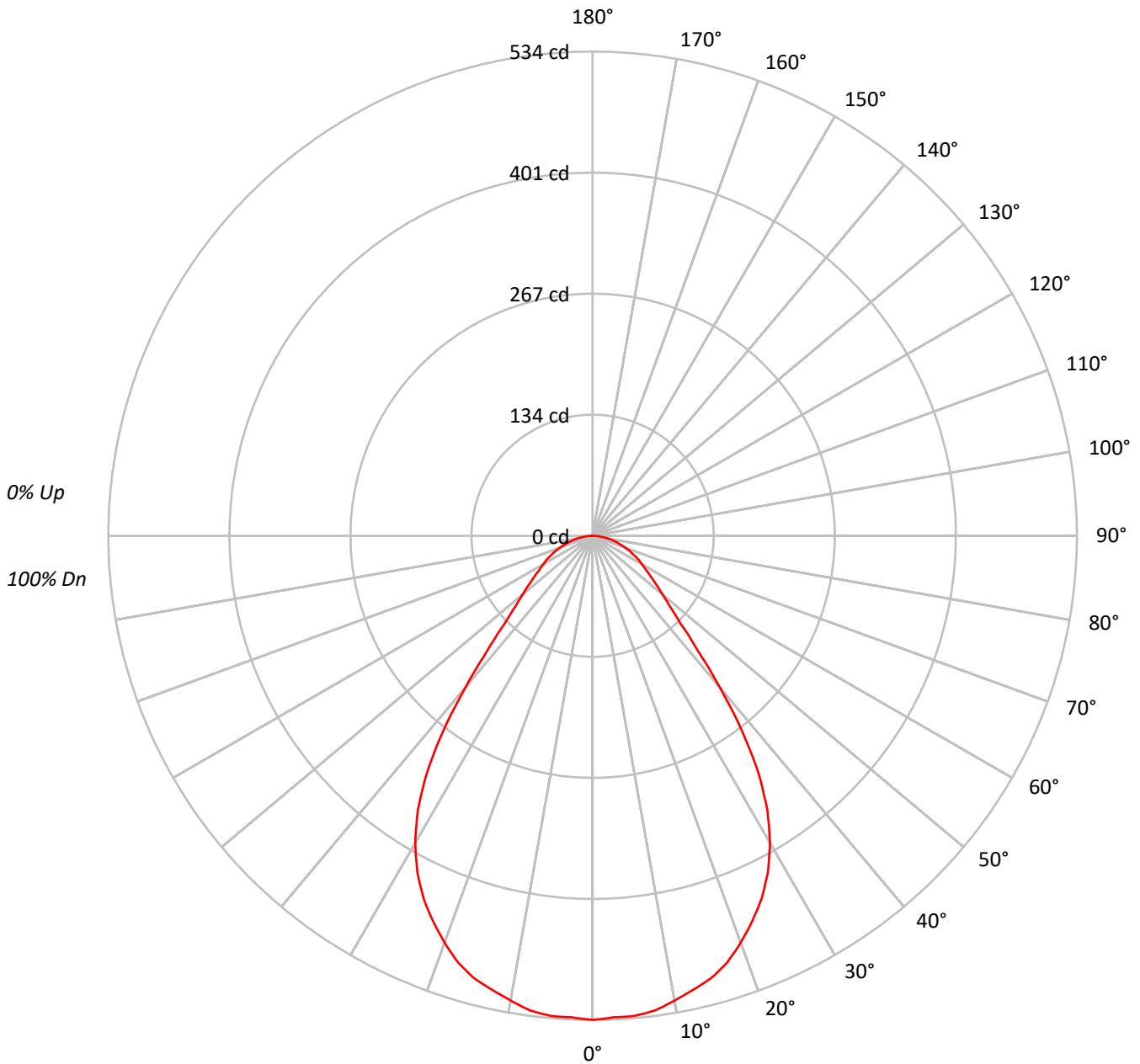
Input Watts (W): 8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	111	107	104	101	108	105	102	99	101	98	96	97	95	93	94	92	90	89			89
2	103	97	91	87	101	95	90	86	91	87	84	88	85	82	85	83	80	78			78
3	96	87	81	76	94	86	80	75	83	78	74	81	76	72	78	74	71	69			69
4	89	80	72	67	87	78	72	66	76	70	66	74	69	65	72	67	64	62			62
5	84	73	65	60	82	72	65	59	70	64	59	68	63	58	66	61	58	56			56
6	78	67	59	54	76	66	59	54	64	58	53	63	57	53	61	56	52	51			51
7	73	62	54	49	72	61	54	49	60	53	48	58	52	48	57	52	48	46			46
8	69	57	50	45	68	57	50	45	55	49	44	54	48	44	53	48	44	42			42
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	44	41	39			39
10	61	50	43	38	60	49	42	38	48	42	38	47	42	38	47	41	38	36			36

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	29274
5°	29254
10°	28974
15°	28672
20°	27862
25°	26687
30°	24763
35°	21308
40°	15551
45°	10652
50°	8571
55°	7474
60°	6896
65°	6551
70°	6123
75°	5740
80°	5177
85°	4403



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.4	5.9
10°-20°	141.9	16.5
20°-30°	201.8	23.5
30°-40°	194.3	22.6
40°-50°	111.8	13.0
50°-60°	70.8	8.3
60°-70°	50.1	5.8
70°-80°	28.6	3.3
80°-90°	8.1	0.9
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°	394.1	45.9
0°-40°	588.4	68.6
0°-60°	771.0	89.9
0°-90°	857.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	857.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	534	
5°	532	50
15°	505	142
25°	441	202
35°	318	194
45°	137	112
55°	78	71
65°	50	50
75°	27	29
85°	7	8
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	534.0
2.5°	531.6
5°	531.6
7.5°	528.1
10°	520.5
12.5°	512.8
15°	505.2
17.5°	493.4
20°	477.6
22.5°	460.0
25°	441.2
27.5°	418.3
30°	391.2
32.5°	358.4
35°	318.4
37.5°	269.7
40°	217.3
42.5°	171.5
45°	137.4
47.5°	115.7
50°	100.5
52.5°	88.1
55°	78.2
57.5°	69.3
60°	62.9
62.5°	57.0
65°	50.5
67.5°	44.6
70°	38.2
72.5°	32.3
75°	27.1
77.5°	21.8
80°	16.4
82.5°	11.8
85°	7.0
87.5°	2.9
90°	0.0



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— 0°-180°







(END OF REPORT)