

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: P593044

Luminaire Tested: **HC607D010-HM60525950-61NDW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P593044
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-3)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC607D010-HM60525950-61NDW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" NARROW DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 785.8 lumens
Efficiency: N/A
Efficacy: 98.2 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.06 / 1.03
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

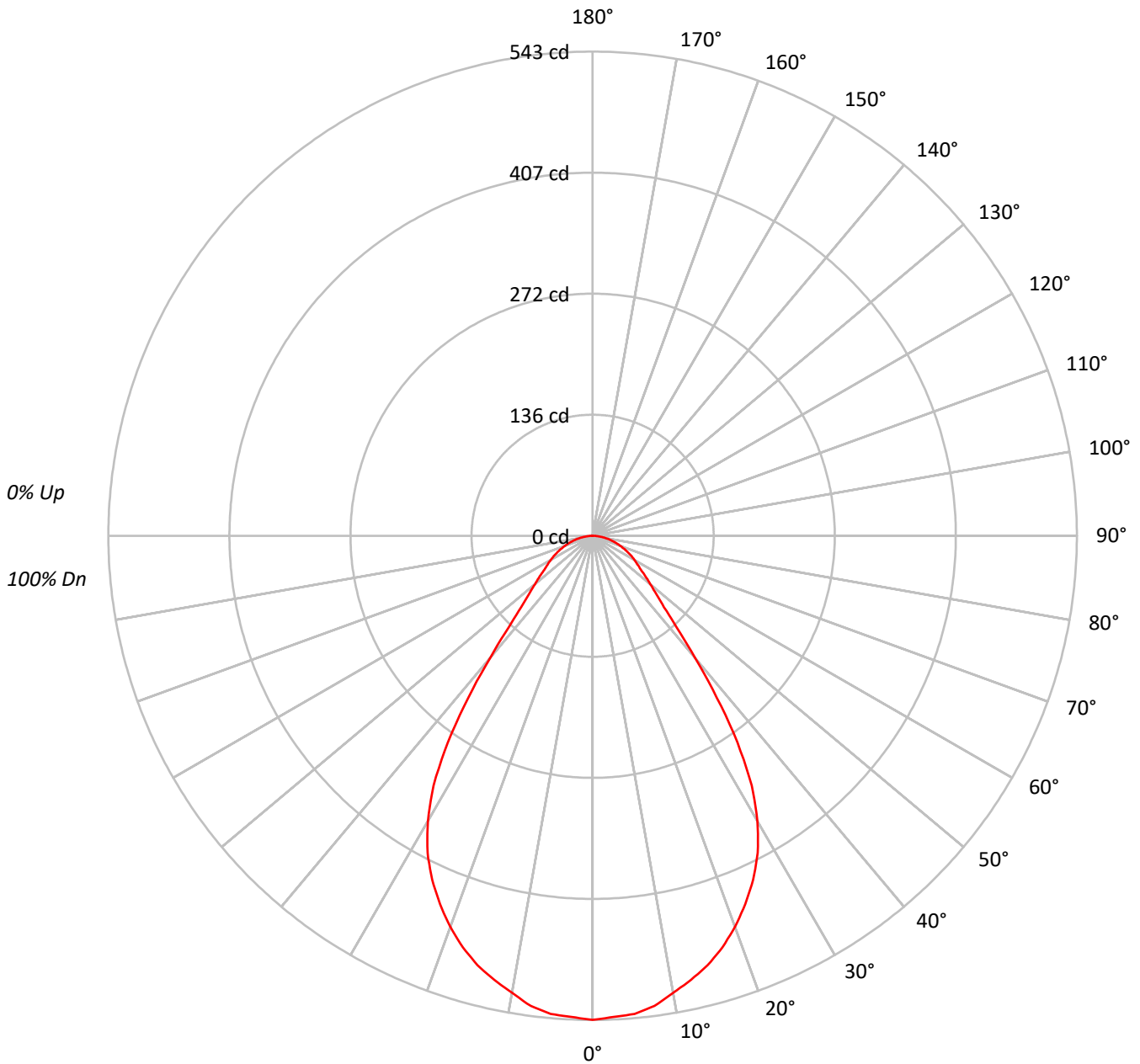
Input Watts (W): 8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	104	101	109	105	102	100	101	99	96	97	95	94	94	92	91	89			89
2	104	97	92	87	101	95	90	86	92	88	84	89	85	83	86	83	81	79			79
3	97	88	82	77	94	87	81	76	84	79	75	81	77	73	79	75	72	70			70
4	90	81	73	68	88	79	73	68	77	71	67	75	70	66	73	69	65	63			63
5	84	74	67	61	83	73	66	61	71	65	60	69	64	60	67	63	59	57			57
6	79	68	61	55	77	67	60	55	66	59	55	64	59	54	63	58	54	52			52
7	74	63	56	50	73	62	55	50	61	55	50	60	54	50	58	53	49	48			48
8	70	59	51	46	69	58	51	46	57	50	46	56	50	46	54	49	46	44			44
9	66	55	48	43	65	54	47	43	53	47	42	52	46	42	51	46	42	41			41
10	63	51	44	40	61	51	44	40	50	44	39	49	43	39	48	43	39	38			38

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	29762
5°	29622
10°	28969
15°	28292
20°	27227
25°	25749
30°	23402
35°	18939
40°	12767
45°	8776
50°	7190
55°	6289
60°	5953
65°	5617
70°	5289
75°	5020
80°	4546
85°	3963



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.8	6.5
10°-20°	140.0	17.8
20°-30°	194.5	24.8
30°-40°	173.2	22.0
40°-50°	91.9	11.7
50°-60°	60.1	7.7
60°-70°	43.1	5.5
70°-80°	25.0	3.2
80°-90°	7.3	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°	385.3	49.0
0°-40°	558.5	71.1
0°-60°	710.5	90.4
0°-90°	785.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	785.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	543	
5°	538	51
15°	498	140
25°	426	194
35°	283	173
45°	113	92
55°	66	60
65°	43	43
75°	24	25
85°	6	7
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	542.9
2.5°	540.1
5°	538.3
7.5°	531.9
10°	520.4
12.5°	510.1
15°	498.5
17.5°	484.0
20°	466.7
22.5°	447.1
25°	425.7
27.5°	400.9
30°	369.7
32.5°	332.1
35°	283.0
37.5°	228.8
40°	178.4
42.5°	138.7
45°	113.2
47.5°	96.4
50°	84.3
52.5°	74.6
55°	65.8
57.5°	59.5
60°	54.3
62.5°	49.1
65°	43.3
67.5°	38.1
70°	33.0
72.5°	28.3
75°	23.7
77.5°	19.0
80°	14.4
82.5°	10.4
85°	6.3
87.5°	2.8
90°	0.0



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— 0°-180°







(END OF REPORT)