

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: P583527

Luminaire Tested: **HC805D010-HM80520935-81MDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P583527
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-6)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC805D010-HM80520935-81MDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" MEDIUM DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 667.0 lumens
Efficiency: N/A
Efficacy: 111.2 lumens/watt
Spacing Criteria (0/90/45): 1 / 1 / 0.95
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

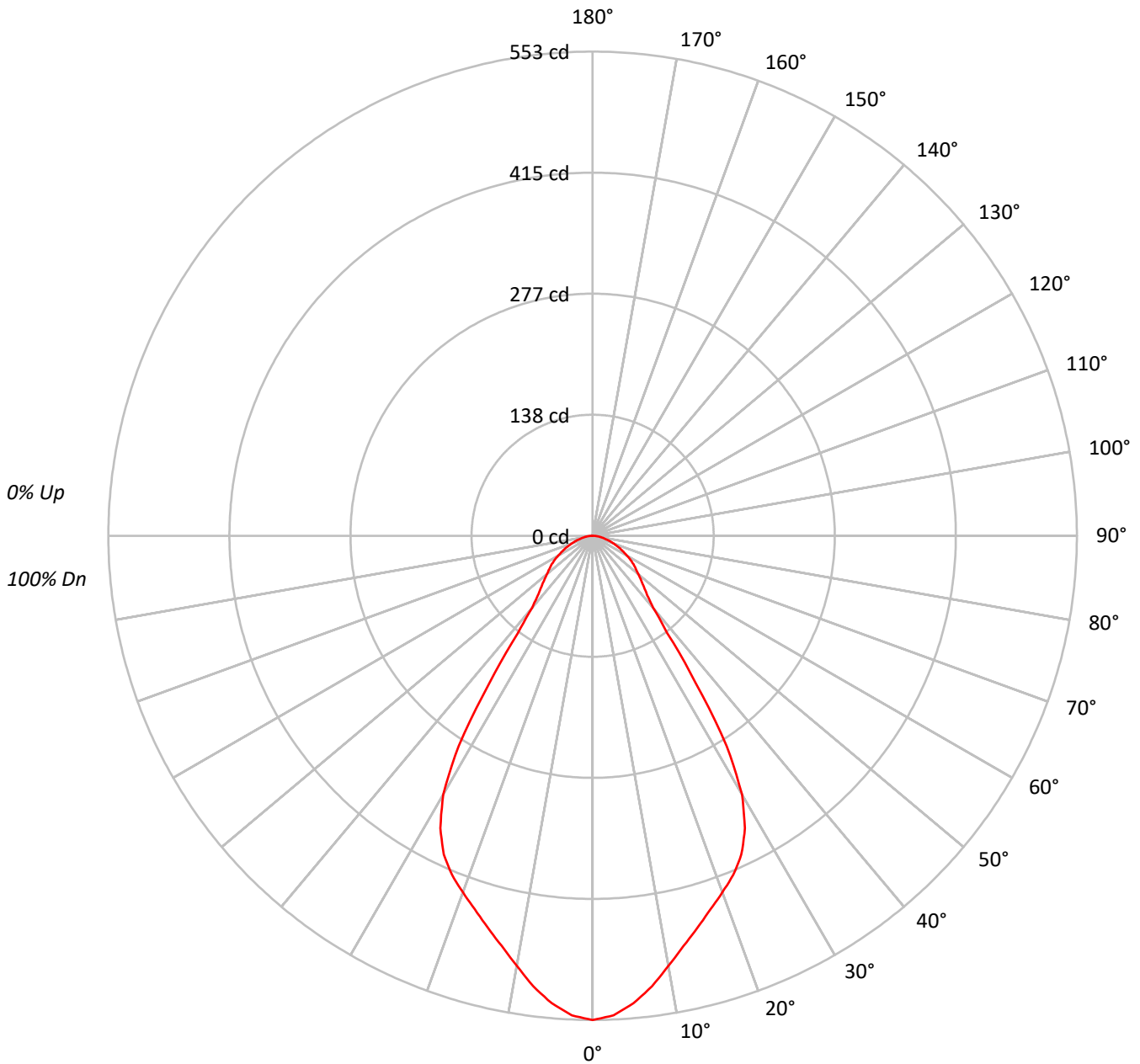
Input Watts (W): 6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	92	90			90
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	80			80
3	98	89	83	78	95	88	82	78	85	80	76	83	78	75	80	77	74	72			72
4	91	82	75	70	89	81	74	69	78	73	69	76	72	68	74	70	67	65			65
5	86	76	68	63	84	75	68	63	73	67	62	71	66	62	69	65	61	59			59
6	81	70	63	58	79	69	62	57	67	61	57	66	61	56	64	60	56	54			54
7	76	65	58	53	74	64	57	53	63	57	52	62	56	52	60	55	52	50			50
8	72	61	54	49	70	60	53	49	59	53	48	58	52	48	57	52	48	46			46
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43			43
10	64	53	46	42	63	53	46	42	52	46	42	51	46	42	50	45	42	40			40

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	17056
5°	16591
10°	15615
15°	14784
20°	14219
25°	13671
30°	12142
35°	7732
40°	4319
45°	3611
50°	3262
55°	3075
60°	2806
65°	2532
70°	2236
75°	1978
80°	1758
85°	1592



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.0	7.5
10°-20°	130.6	19.6
20°-30°	182.2	27.3
30°-40°	131.1	19.7
40°-50°	65.0	9.7
50°-60°	50.8	7.6
60°-70°	34.4	5.2
70°-80°	17.8	2.7
80°-90°	5.2	0.8
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°	362.8	54.4
0°-40°	493.8	74.0
0°-60°	609.6	91.4
0°-90°	667.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	667.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	553	
5°	536	50
15°	463	131
25°	402	182
35°	205	131
45°	83	65
55°	57	51
65°	35	34
75°	17	18
85°	4	5
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	553.1
2.5°	548.2
5°	536.0
7.5°	518.9
10°	498.7
12.5°	479.8
15°	463.1
17.5°	447.3
20°	433.3
22.5°	419.4
25°	401.8
27.5°	376.6
30°	341.0
32.5°	285.1
35°	205.4
37.5°	140.0
40°	107.3
42.5°	92.4
45°	82.8
47.5°	74.8
50°	68.0
52.5°	62.1
55°	57.2
57.5°	51.4
60°	45.5
62.5°	39.6
65°	34.7
67.5°	29.7
70°	24.8
72.5°	20.7
75°	16.6
77.5°	13.0
80°	9.9
82.5°	7.2
85°	4.5
87.5°	2.3
90°	0.0



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— 0°-180°







(END OF REPORT)