

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: P583514

Luminaire Tested: **HC805D010-HM80520930-81PSMDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P583514
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-12)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC805D010-HM80520930-81PSMDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" PLASTIC TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 634.3 lumens
Efficiency: N/A
Efficacy: 105.7 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.06 / 0.97
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

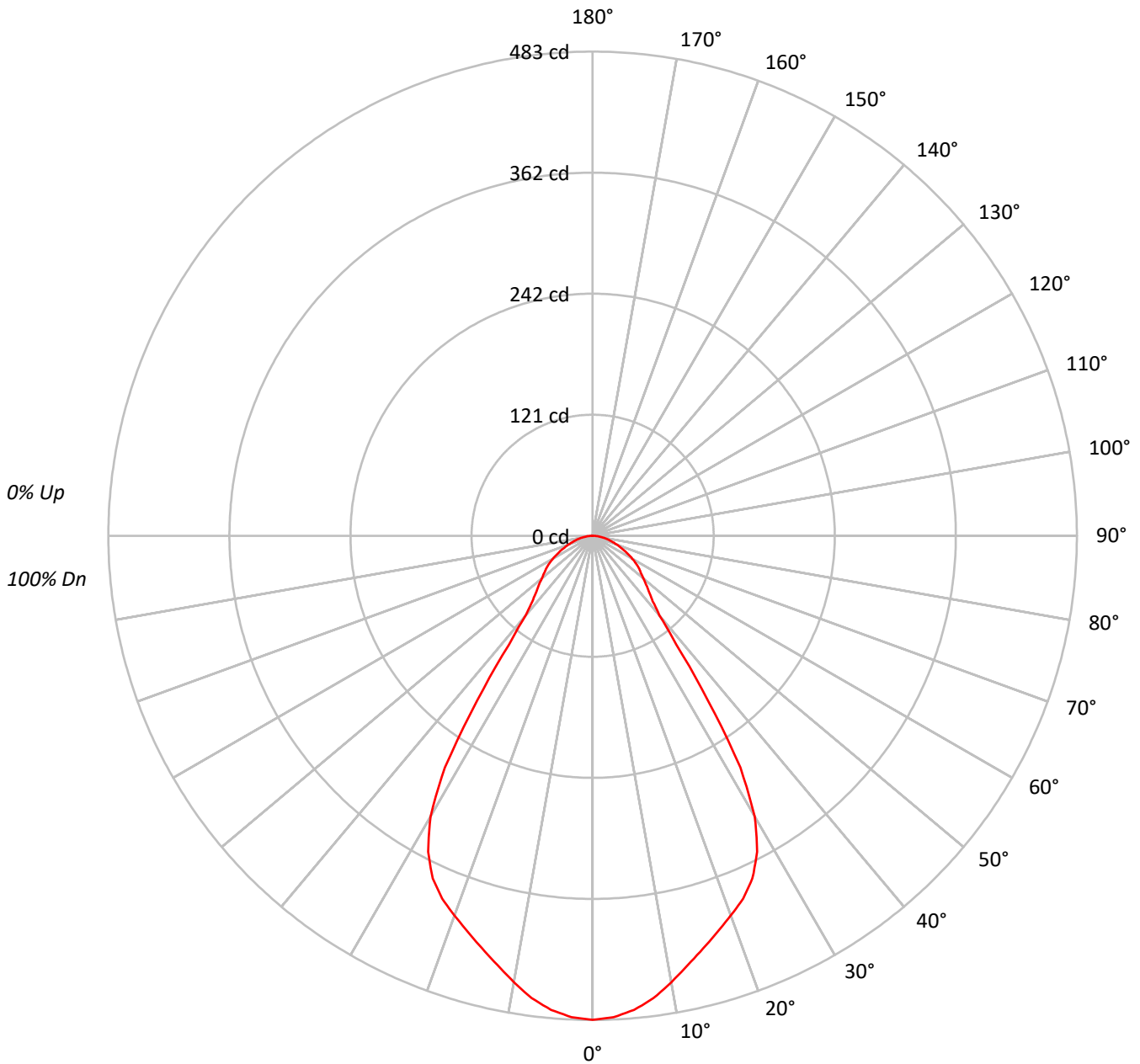
Input Watts (W): 6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	111	108	105	102	109	106	103	100	101	99	97	98	96	94	94	93	91	89		
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	86	84	81	79		
3	97	89	83	77	95	87	82	77	85	80	76	82	78	74	80	76	73	71		
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	70	66	64		
5	85	75	68	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58		
6	80	69	62	57	78	68	61	56	67	61	56	65	60	56	64	59	55	53		
7	75	64	57	52	74	63	57	52	62	56	51	61	55	51	60	55	51	49		
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	45		
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42		
10	64	52	46	41	62	52	45	41	51	45	41	50	45	41	49	44	41	39		

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	14891
5°	14694
10°	14156
15°	13603
20°	13225
25°	12830
30°	11512
35°	7548
40°	4174
45°	3476
50°	3171
55°	3027
60°	2812
65°	2554
70°	2308
75°	2085
80°	1900
85°	1804



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.6	7.0
10°-20°	120.2	19.0
20°-30°	171.1	27.0
30°-40°	126.6	20.0
40°-50°	62.7	9.9
50°-60°	50.1	7.9
60°-70°	34.7	5.5
70°-80°	18.7	3.0
80°-90°	5.5	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°	335.9	53.0
0°-40°	462.5	72.9
0°-60°	575.3	90.7
0°-90°	634.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	634.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	483	
5°	475	45
15°	426	120
25°	377	171
35°	200	127
45°	80	63
55°	56	50
65°	35	35
75°	18	19
85°	5	6
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	482.9
2.5°	480.7
5°	474.7
7.5°	465.3
10°	452.1
12.5°	438.5
15°	426.1
17.5°	414.2
20°	403.0
22.5°	392.0
25°	377.1
27.5°	355.3
30°	323.3
32.5°	274.2
35°	200.5
37.5°	136.9
40°	103.7
42.5°	88.7
45°	79.7
47.5°	72.5
50°	66.1
52.5°	60.6
55°	56.3
57.5°	51.2
60°	45.6
62.5°	40.1
65°	35.0
67.5°	29.8
70°	25.6
72.5°	21.3
75°	17.5
77.5°	14.1
80°	10.7
82.5°	7.7
85°	5.1
87.5°	2.2
90°	0.0



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— 0°-180°







(END OF REPORT)