

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: P593458

Luminaire Tested: **HC805D010-HM80520850-81PSMDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P593458
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-HM80520850-81PSMDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" PLASTIC TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 784.1 lumens
Efficiency: N/A
Efficacy: 130.7 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

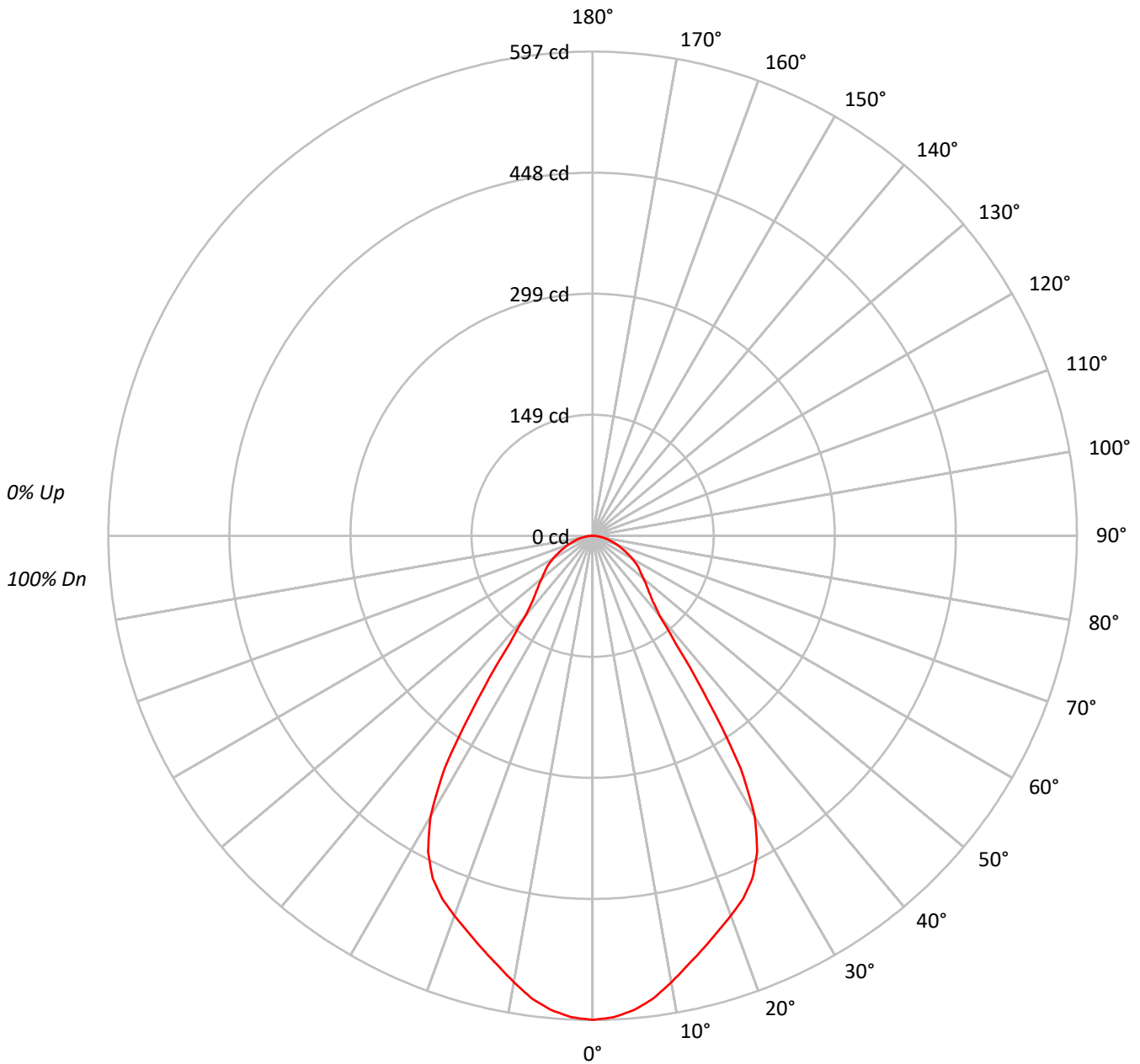
Input Watts (W): 6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	18406
5°	18167
10°	17500
15°	16818
20°	16352
25°	15859
30°	14232
35°	9328
40°	5157
45°	4300
50°	3924
55°	3736
60°	3478
65°	3152
70°	2849
75°	2585
80°	2344
85°	2229



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.1	7.0
10°-20°	148.6	19.0
20°-30°	211.5	27.0
30°-40°	156.5	20.0
40°-50°	77.5	9.9
50°-60°	61.9	7.9
60°-70°	42.9	5.5
70°-80°	23.2	3.0
80°-90°	6.8	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°	415.3	53.0
0°-40°	571.8	72.9
0°-60°	711.2	90.7
0°-90°	784.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	784.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	597	
5°	587	55
15°	527	149
25°	466	212
35°	248	157
45°	99	78
55°	70	62
65°	43	43
75°	22	23
85°	6	7
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	596.9
2.5°	594.3
5°	586.9
7.5°	575.3
10°	558.9
12.5°	542.1
15°	526.8
17.5°	512.0
20°	498.3
22.5°	484.5
25°	466.1
27.5°	439.3
30°	399.7
32.5°	339.1
35°	247.8
37.5°	169.3
40°	128.1
42.5°	109.6
45°	98.6
47.5°	89.7
50°	81.8
52.5°	74.9
55°	69.5
57.5°	63.3
60°	56.4
62.5°	49.6
65°	43.2
67.5°	36.9
70°	31.6
72.5°	26.3
75°	21.7
77.5°	17.4
80°	13.2
82.5°	9.5
85°	6.3
87.5°	2.6
90°	0.0



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— 0°-180°







(END OF REPORT)