

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: P583531

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

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P583531
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-HM80520935-81PSMDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" PLASTIC TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 669.9 lumens
Efficiency: N/A
Efficacy: 111.6 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

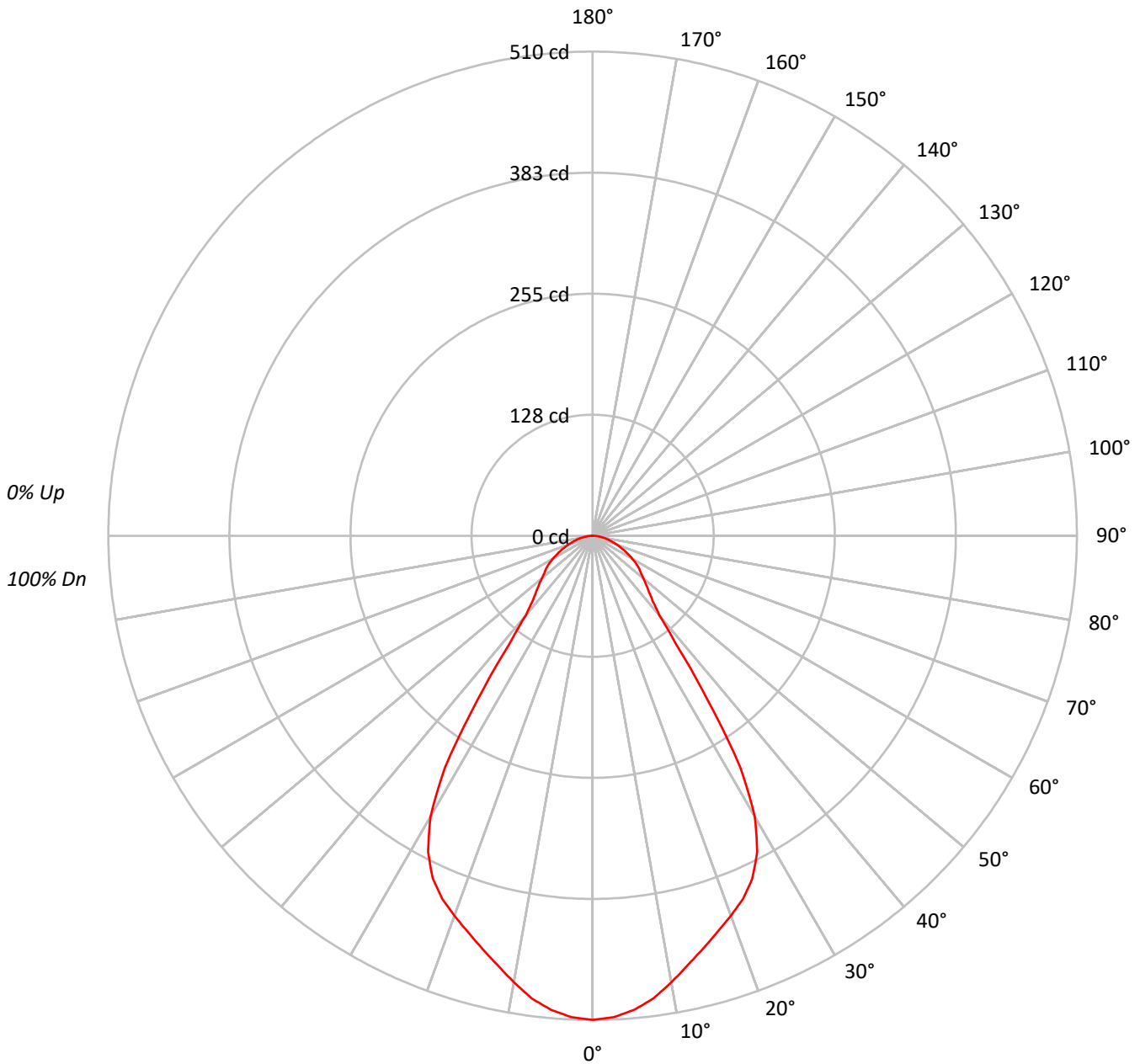
Input Watts (W): 6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	15723
5°	15517
10°	14951
15°	14366
20°	13969
25°	13545
30°	12156
35°	7969
40°	4404
45°	3676
50°	3349
55°	3199
60°	2973
65°	2700
70°	2443
75°	2192
80°	2007
85°	1911



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.1	7.0
10°-20°	127.0	19.0
20°-30°	180.7	27.0
30°-40°	133.7	20.0
40°-50°	66.2	9.9
50°-60°	52.9	7.9
60°-70°	36.7	5.5
70°-80°	19.7	2.9
80°-90°	5.8	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°	354.7	53.0
0°-40°	488.5	72.9
0°-60°	607.6	90.7
0°-90°	669.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	669.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	510	
5°	501	47
15°	450	127
25°	398	181
35°	212	134
45°	84	66
55°	60	53
65°	37	37
75°	18	20
85°	5	6
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	509.9
2.5°	507.6
5°	501.3
7.5°	491.4
10°	477.5
12.5°	463.0
15°	450.0
17.5°	437.4
20°	425.7
22.5°	413.9
25°	398.1
27.5°	375.3
30°	341.4
32.5°	289.7
35°	211.7
37.5°	144.6
40°	109.4
42.5°	93.7
45°	84.3
47.5°	76.6
50°	69.8
52.5°	63.9
55°	59.5
57.5°	54.1
60°	48.2
62.5°	42.4
65°	37.0
67.5°	31.5
70°	27.1
72.5°	22.5
75°	18.4
77.5°	14.8
80°	11.3
82.5°	8.1
85°	5.4
87.5°	2.3
90°	0.0



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— 0°-180°







(END OF REPORT)