

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: P583612

Luminaire Tested: **HC807D010-HM80520840-81MDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P583612
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: HC807D010-HM80520840-81MDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" MEDIUM DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1030.3 lumens
Efficiency: N/A
Efficacy: 128.8 lumens/watt
Spacing Criteria (0/90/45): 1 / 1 / 0.95
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

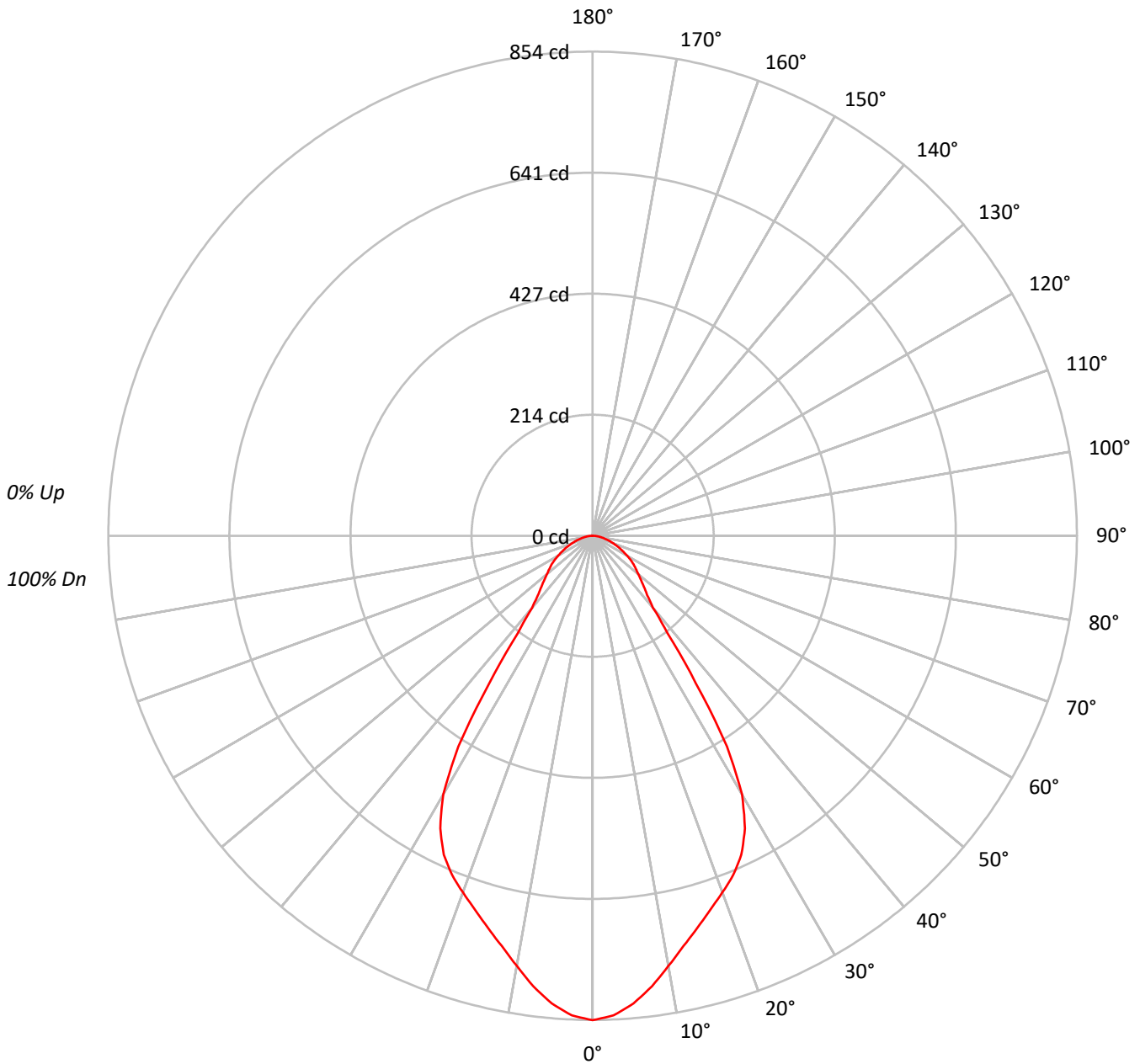
Input Watts (W): 8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	26347
5°	25630
10°	24117
15°	22832
20°	21963
25°	21119
30°	18758
35°	11945
40°	6666
45°	5582
50°	5037
55°	4747
60°	4336
65°	3904
70°	3444
75°	3062
80°	2717
85°	2441



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.2	7.5
10°-20°	201.7	19.6
20°-30°	281.4	27.3
30°-40°	202.5	19.7
40°-50°	100.4	9.7
50°-60°	78.5	7.6
60°-70°	53.1	5.2
70°-80°	27.6	2.7
80°-90°	7.9	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°	560.3	54.4
0°-40°	762.8	74.0
0°-60°	941.7	91.4
0°-90°	1030.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1030.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	854	
5°	828	77
15°	715	202
25°	621	281
35°	317	203
45°	128	100
55°	88	78
65°	54	53
75°	26	28
85°	7	8
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	854.4
2.5°	846.8
5°	828.0
7.5°	801.5
10°	770.2
12.5°	741.0
15°	715.2
17.5°	690.9
20°	669.3
22.5°	647.8
25°	620.7
27.5°	581.7
30°	526.8
32.5°	440.5
35°	317.3
37.5°	216.4
40°	165.6
42.5°	142.7
45°	128.0
47.5°	115.6
50°	105.0
52.5°	96.0
55°	88.3
57.5°	79.3
60°	70.3
62.5°	61.2
65°	53.5
67.5°	45.9
70°	38.2
72.5°	32.0
75°	25.7
77.5°	20.2
80°	15.3
82.5°	11.1
85°	6.9
87.5°	3.5
90°	0.0



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— 0°-180°







(END OF REPORT)