

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: P593449

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

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P593449
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-10)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC805D010-HM80520850-81WDWB
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 868.5 lumens
Efficiency: N/A
Efficacy: 144.7 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 1.32 / 1.14
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

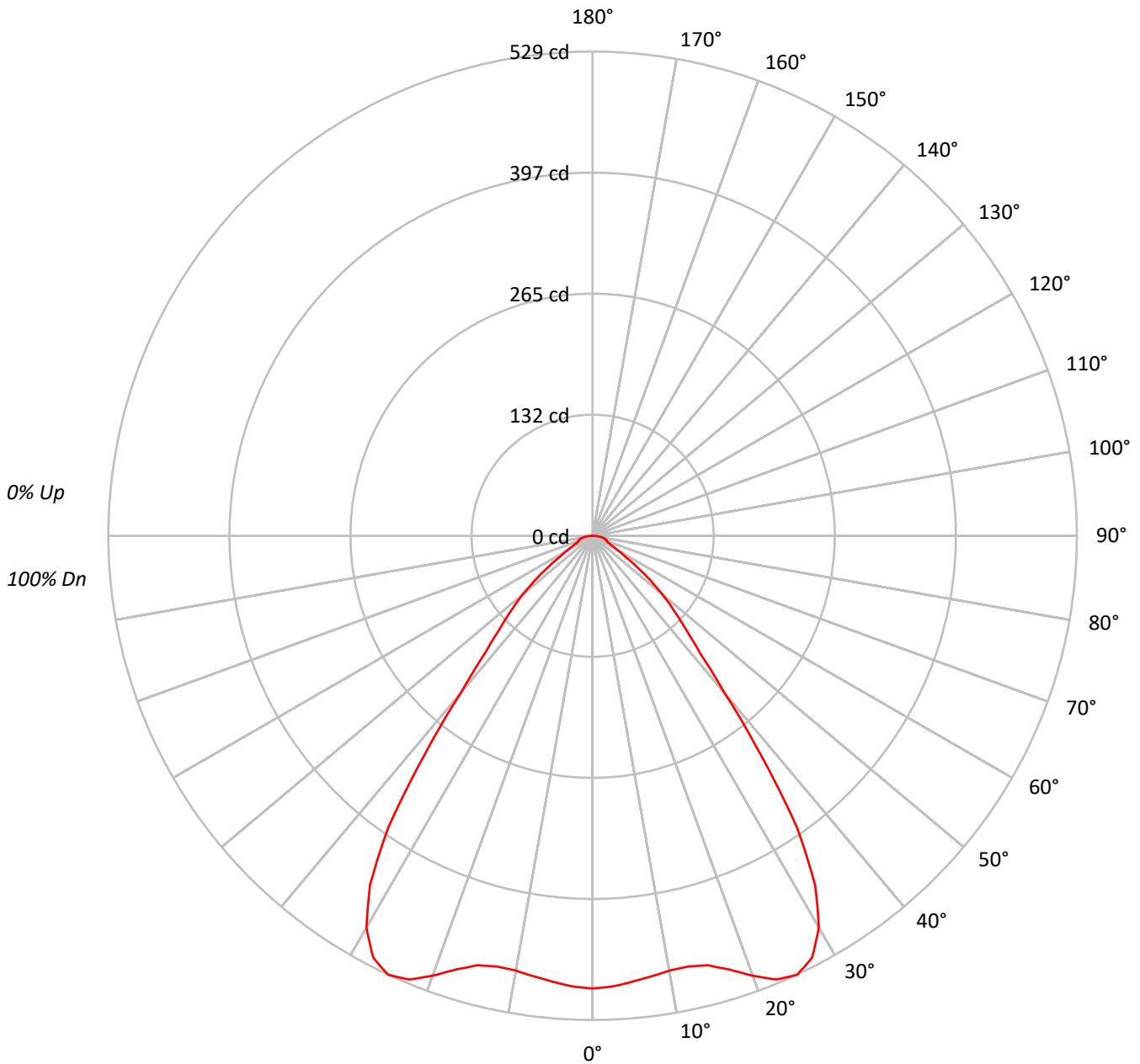
Input Watts (W): 6
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			
1	112	108	105	103	109	106	103	101	102	100	98	98	97	95	95	93	92	90			
2	105	99	94	89	102	97	92	88	93	90	86	90	87	84	88	85	83	81			
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	73			
4	92	82	75	70	90	81	75	70	79	73	69	77	72	68	75	71	67	65			
5	86	75	68	63	84	74	68	63	73	67	62	71	66	62	69	65	61	59			
6	80	69	62	57	79	69	62	57	67	61	56	65	60	56	64	59	56	54			
7	75	64	57	52	74	63	57	52	62	56	51	61	55	51	59	55	51	49			
8	71	59	52	47	69	59	52	47	58	51	47	56	51	47	55	50	47	45			
9	67	55	48	43	65	55	48	43	54	47	43	53	47	43	52	47	43	41			
10	63	51	45	40	62	51	44	40	50	44	40	49	44	40	48	43	40	38			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	15252
5°	15146
10°	15108
15°	15506
20°	16785
25°	17999
30°	17593
35°	14647
40°	9001
45°	6232
50°	4754
55°	3124
60°	1949
65°	1459
70°	1479
75°	1692
80°	1865
85°	1698



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.5	5.4
10°-20°	139.4	16.1
20°-30°	240.0	27.6
30°-40°	232.5	26.8
40°-50°	114.5	13.2
50°-60°	54.0	6.2
60°-70°	21.3	2.5
70°-80°	14.7	1.7
80°-90°	5.5	0.6
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°	426.0	49.0
0°-40°	658.5	75.8
0°-60°	827.0	95.2
0°-90°	868.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	868.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	495	
5°	489	46
15°	486	139
25°	529	240
35°	389	233
45°	143	115
55°	58	54
65°	20	21
75°	14	15
85°	5	5
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	494.6
2.5°	493.0
5°	489.3
7.5°	485.7
10°	482.5
12.5°	482.0
15°	485.7
17.5°	496.8
20°	511.5
22.5°	524.8
25°	529.0
27.5°	519.4
30°	494.1
32.5°	452.5
35°	389.1
37.5°	302.1
40°	223.6
42.5°	173.4
45°	142.9
47.5°	120.2
50°	99.1
52.5°	78.0
55°	58.1
57.5°	42.1
60°	31.6
62.5°	24.8
65°	20.0
67.5°	17.4
70°	16.4
72.5°	15.3
75°	14.2
77.5°	12.7
80°	10.5
82.5°	7.9
85°	4.8
87.5°	2.2
90°	0.0



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— 0°-180°







(END OF REPORT)