

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: P583551

Luminaire Tested: **HC805D010-HM80520940-81WDBB**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P583551
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-11)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC805D010-HM80520940-81WDBB
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, BLACK BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 694.9 lumens
Efficiency: N/A
Efficacy: 115.8 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 1.32 / 1.13
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

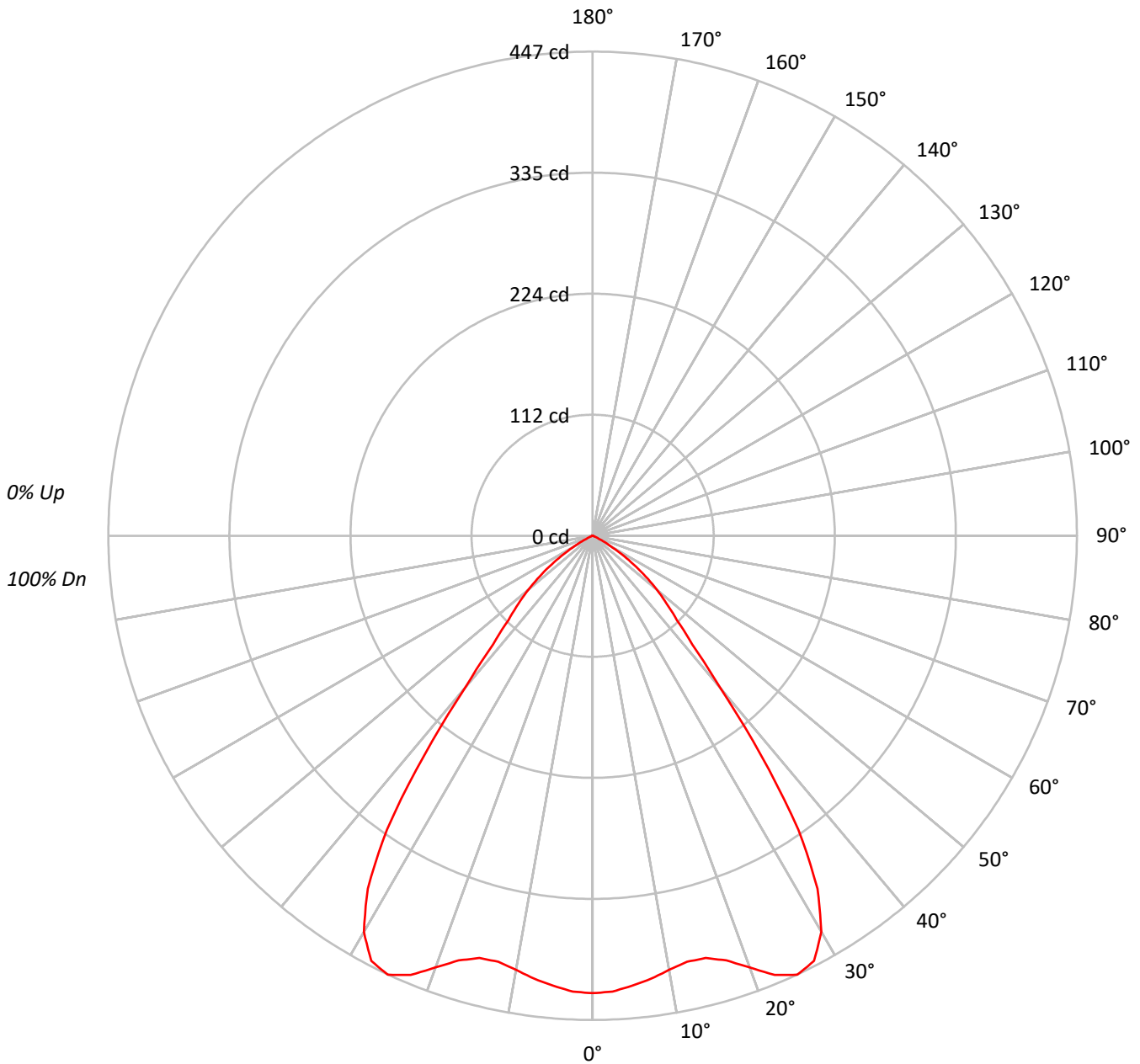
Input Watts (W): 6
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			100
1	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	92			92
2	106	100	95	92	104	98	94	91	95	92	89	92	89	87	89	87	85	83			83
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	75			75
4	93	84	78	73	91	83	77	72	81	76	71	79	74	71	77	73	70	68			68
5	87	77	71	66	85	76	70	65	74	69	65	73	68	64	71	67	63	62			62
6	82	71	64	59	80	70	64	59	69	63	59	67	62	58	66	61	58	56			56
7	77	66	59	54	75	65	59	54	64	58	54	63	57	53	61	57	53	51			51
8	72	61	54	49	71	61	54	49	59	53	49	58	53	49	57	52	49	47			47
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	52	46	42	52	46	42	51	45	41	50	45	41	40			40

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	13019
5°	12908
10°	12741
15°	12885
20°	13914
25°	15216
30°	15033
35°	12468
40°	7338
45°	4797
50°	3713
55°	2473
60°	1203
65°	372
70°	126
75°	119
80°	89
85°	177



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.5	5.7
10°-20°	116.0	16.7
20°-30°	202.7	29.2
30°-40°	197.2	28.4
40°-50°	89.7	12.9
50°-60°	41.6	6.0
60°-70°	7.0	1.0
70°-80°	0.9	0.1
80°-90°	0.3	0.0
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°	358.2	51.5
0°-40°	555.4	79.9
0°-60°	686.7	98.8
0°-90°	694.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	694.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	422	
5°	417	39
15°	404	116
25°	447	203
35°	331	197
45°	110	90
55°	46	42
65°	5	7
75°	1	1
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	422.2
2.5°	421.2
5°	417.0
7.5°	412.5
10°	406.9
12.5°	402.7
15°	403.6
17.5°	411.0
20°	424.0
22.5°	438.8
25°	447.2
27.5°	442.5
30°	422.2
32.5°	386.4
35°	331.2
37.5°	255.2
40°	182.3
42.5°	136.0
45°	110.0
47.5°	92.8
50°	77.4
52.5°	61.6
55°	46.0
57.5°	31.6
60°	19.5
62.5°	10.7
65°	5.1
67.5°	2.3
70°	1.4
72.5°	1.0
75°	1.0
77.5°	0.5
80°	0.5
82.5°	0.5
85°	0.5
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)