

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: P585302

Luminaire Tested: **HC880D010-HM86080935-81WDWB**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P585302
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: HC880D010-HM86080935-81WDWB
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7267.1 lumens
Efficiency: N/A
Efficacy: 103.8 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

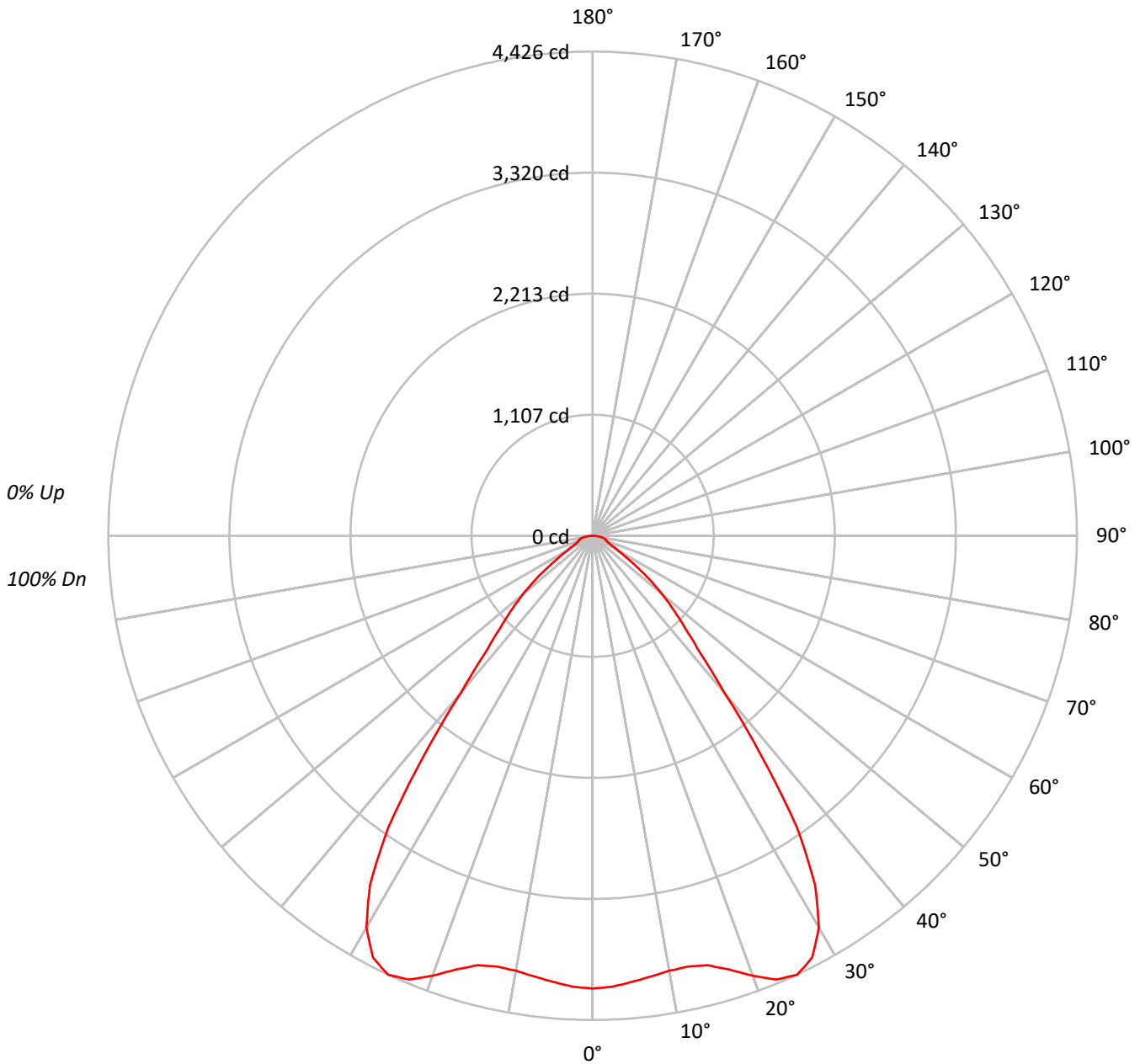
Input Watts (W): 70
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	127628
5°	126751
10°	126419
15°	129736
20°	140450
25°	150580
30°	147216
35°	122585
40°	75311
45°	52148
50°	39798
55°	26090
60°	16331
65°	12229
70°	12325
75°	14190
80°	15662
85°	14046



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	389.1	5.4
10°-20°	1166.6	16.1
20°-30°	2008.3	27.6
30°-40°	1945.7	26.8
40°-50°	958.4	13.2
50°-60°	452.2	6.2
60°-70°	178.2	2.5
70°-80°	122.9	1.7
80°-90°	45.6	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°	3564.0	49.0
0°-40°	5509.7	75.8
0°-60°	6920.3	95.2
0°-90°	7267.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7267.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4139	
5°	4095	389
15°	4064	1167
25°	4426	2008
35°	3256	1946
45°	1196	958
55°	485	452
65°	168	178
75°	119	123
85°	40	46
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	4138.9
2.5°	4125.6
5°	4094.8
7.5°	4063.9
10°	4037.4
12.5°	4033.0
15°	4063.9
17.5°	4156.5
20°	4280.0
22.5°	4390.4
25°	4425.7
27.5°	4346.3
30°	4134.5
32.5°	3785.9
35°	3256.4
37.5°	2528.3
40°	1870.9
42.5°	1451.7
45°	1195.8
47.5°	1006.0
50°	829.6
52.5°	653.0
55°	485.3
57.5°	353.0
60°	264.8
62.5°	207.4
65°	167.6
67.5°	145.7
70°	136.7
72.5°	127.9
75°	119.1
77.5°	105.9
80°	88.2
82.5°	66.2
85°	39.7
87.5°	17.6
90°	0.0



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— 0°-180°







(END OF REPORT)