

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: P585223

Luminaire Tested: **HC880D010-HM86080835-81MDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P585223
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: HC880D010-HM86080835-81MDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" MEDIUM DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7364.6 lumens
Efficiency: N/A
Efficacy: 105.2 lumens/watt
Spacing Criteria (0/90/45): 1 / 1 / 0.95
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

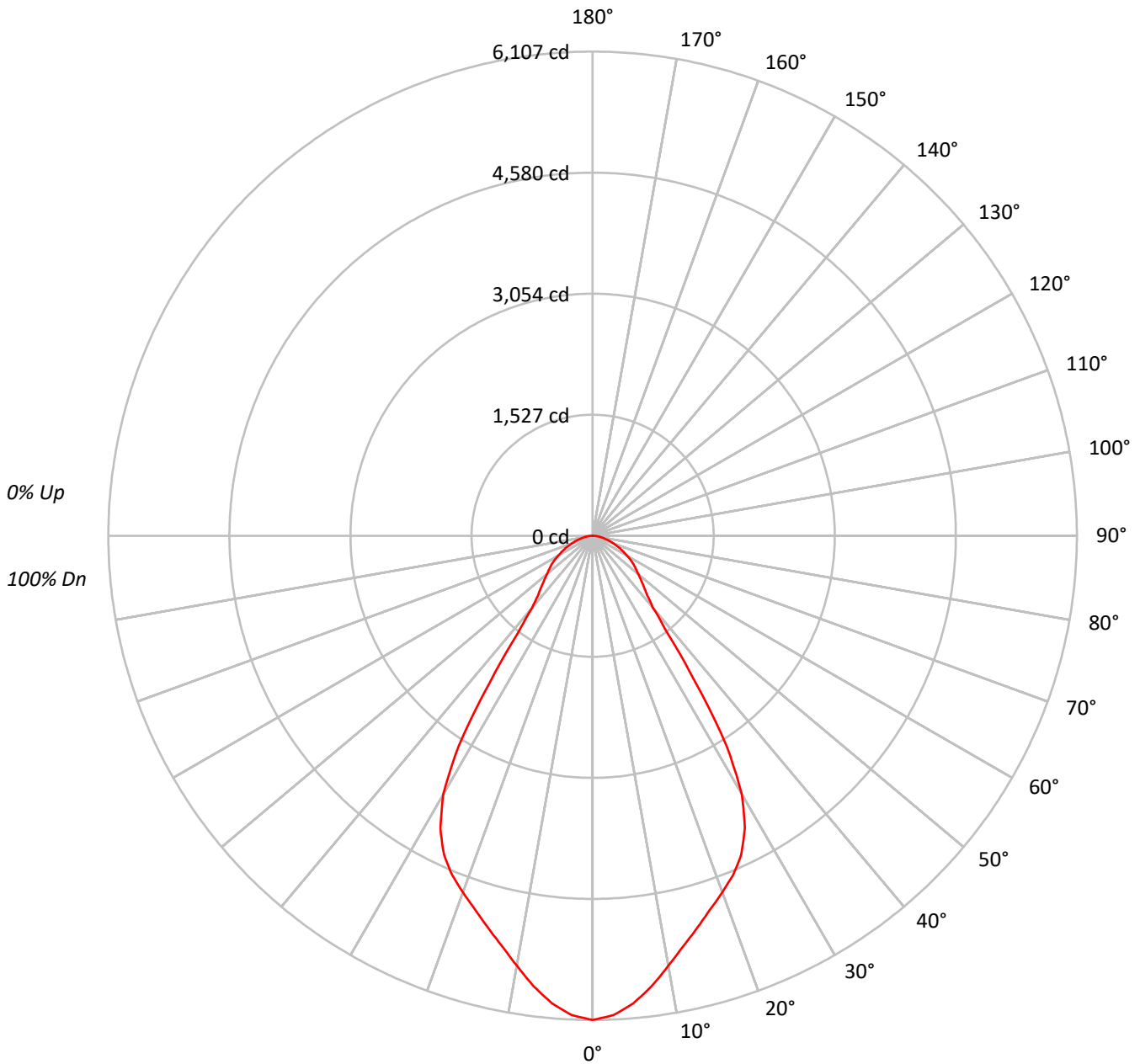
Input Watts (W): 70
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	102	109	106	103	100	102	99	97	98	96	94	94	93	92	90			
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	80			
3	98	89	83	78	95	88	82	78	85	80	76	83	78	75	80	77	74	72			
4	91	82	75	70	89	81	74	69	78	73	69	76	72	68	74	70	67	65			
5	86	76	68	63	84	75	68	63	73	67	62	71	66	62	69	65	61	59			
6	81	70	63	58	79	69	62	57	67	61	57	66	61	56	64	60	56	54			
7	76	65	58	53	74	64	57	53	63	57	52	62	56	52	60	55	52	50			
8	72	61	54	49	70	60	53	49	59	53	48	58	52	48	57	52	48	46			
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43			
10	64	53	46	42	63	53	46	42	52	46	42	51	46	42	50	45	42	40			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	188311
5°	183183
10°	172376
15°	163202
20°	156992
25°	150928
30°	134041
35°	85366
40°	47641
45°	39907
50°	36028
55°	33956
60°	30972
65°	27946
70°	24659
75°	21934
80°	19427
85°	17584



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	551.7	7.5
10°-20°	1441.8	19.6
20°-30°	2011.4	27.3
30°-40°	1447.3	19.7
40°-50°	717.2	9.7
50°-60°	561.2	7.6
60°-70°	379.9	5.2
70°-80°	197.3	2.7
80°-90°	56.8	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°	4004.8	54.4
0°-40°	5452.1	74.0
0°-60°	6730.6	91.4
0°-90°	7364.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7364.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	6107	
5°	5918	552
15°	5112	1442
25°	4436	2011
35°	2268	1447
45°	915	717
55°	632	561
65°	383	380
75°	184	197
85°	50	57
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	6106.8
2.5°	6052.1
5°	5917.9
7.5°	5728.8
10°	5505.1
12.5°	5296.2
15°	5112.2
17.5°	4938.2
20°	4784.1
22.5°	4629.8
25°	4435.9
27.5°	4157.5
30°	3764.5
32.5°	3147.9
35°	2267.7
37.5°	1546.7
40°	1183.5
42.5°	1019.4
45°	915.1
47.5°	825.5
50°	751.0
52.5°	686.3
55°	631.6
57.5°	566.9
60°	502.2
62.5°	437.7
65°	383.0
67.5°	328.2
70°	273.5
72.5°	228.8
75°	184.1
77.5°	144.2
80°	109.4
82.5°	79.5
85°	49.7
87.5°	24.9
90°	0.0



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— 0°-180°







(END OF REPORT)