

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: P593899

Luminaire Tested: **HC880D010-HM86080850-81NDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P593899
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-3)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC880D010-HM86080850-81NDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" NARROW DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6972.9 lumens
Efficiency: N/A
Efficacy: 99.6 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.06 / 0.92
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

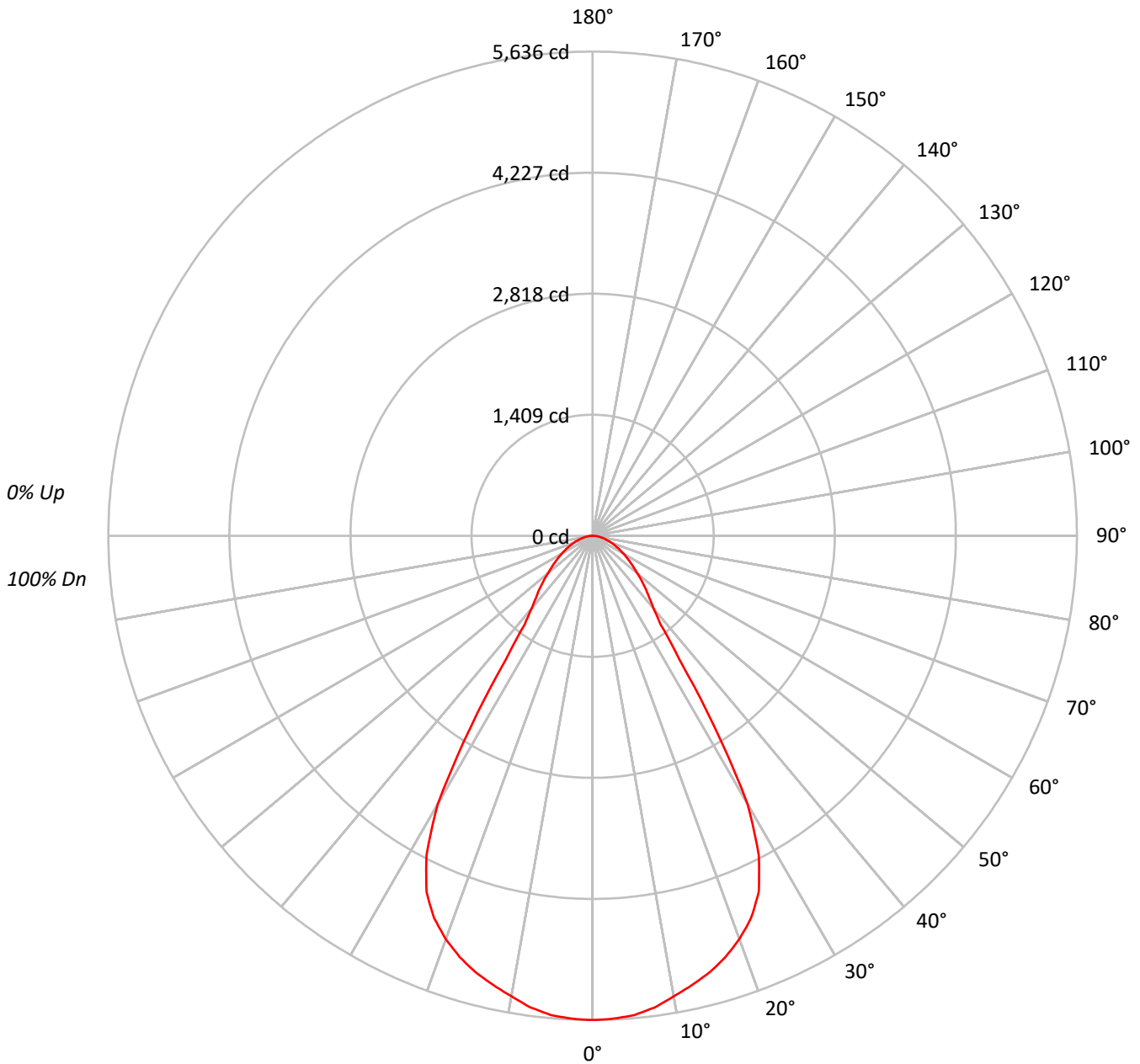
Input Watts (W): 70
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			
1	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90			
2	105	99	94	90	102	97	92	88	94	90	87	91	87	85	88	85	83	81			
3	98	90	84	79	96	89	83	79	86	81	77	84	80	76	81	78	75	73			
4	92	83	76	71	90	82	76	71	80	74	70	77	73	69	75	72	68	67			
5	87	77	70	65	85	76	69	64	74	68	64	72	67	63	70	66	63	61			
6	82	71	64	59	80	70	64	59	69	63	58	67	62	58	66	61	58	56			
7	77	66	59	54	76	66	59	54	64	58	54	63	58	54	62	57	53	52			
8	73	62	55	50	71	61	55	50	60	54	50	59	54	50	58	53	49	48			
9	69	58	51	47	68	57	51	47	56	51	46	55	50	46	55	50	46	45			
10	65	55	48	44	64	54	48	44	53	47	43	52	47	43	52	47	43	42			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	173809
5°	173343
10°	170453
15°	167962
20°	163935
25°	155616
30°	128355
35°	66088
40°	44243
45°	37940
50°	32737
55°	28569
60°	25378
65°	22809
70°	20665
75°	18610
80°	16657
85°	16558



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	529.5	7.6
10°-20°	1480.3	21.2
20°-30°	2051.0	29.4
30°-40°	1231.9	17.7
40°-50°	674.4	9.7
50°-60°	479.1	6.9
60°-70°	311.0	4.5
70°-80°	166.2	2.4
80°-90°	49.6	0.7
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°	4060.7	58.2
0°-40°	5292.7	75.9
0°-60°	6446.1	92.4
0°-90°	6972.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6972.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5636	
5°	5600	529
15°	5261	1480
25°	4574	2051
35°	1756	1232
45°	870	674
55°	531	479
65°	313	311
75°	156	166
85°	47	50
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	5636.5
2.5°	5626.0
5°	5600.0
7.5°	5537.4
10°	5443.7
12.5°	5355.1
15°	5261.3
17.5°	5141.6
20°	4995.7
22.5°	4818.5
25°	4573.7
27.5°	4188.3
30°	3604.8
32.5°	2641.1
35°	1755.6
37.5°	1297.1
40°	1099.1
42.5°	974.1
45°	870.0
47.5°	770.9
50°	682.4
52.5°	599.0
55°	531.4
57.5°	468.8
60°	411.5
62.5°	359.4
65°	312.6
67.5°	265.6
70°	229.2
72.5°	187.5
75°	156.2
77.5°	125.0
80°	93.8
82.5°	67.8
85°	46.8
87.5°	20.8
90°	0.0



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— 0°-180°







(END OF REPORT)