

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: P585311

Luminaire Tested: **HC880D010-HM86080940-81NDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P585311
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-HM86080940-81NDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" NARROW DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6094.0 lumens
Efficiency: N/A
Efficacy: 87.1 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

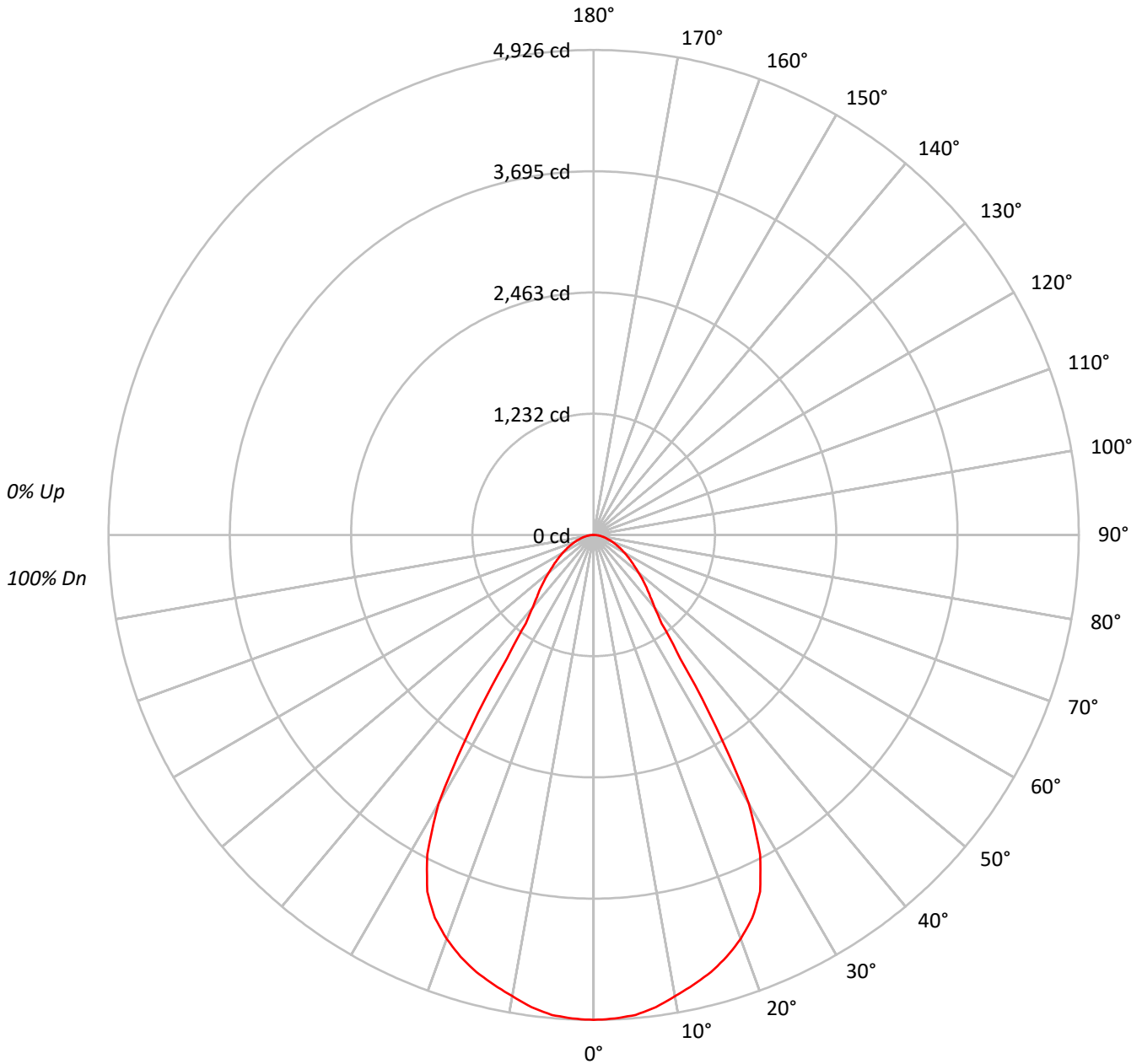
Input Watts (W): 70
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	151900
5°	151496
10°	148967
15°	146793
20°	143272
25°	136001
30°	112179
35°	57757
40°	38668
45°	33152
50°	28611
55°	24967
60°	22184
65°	19927
70°	18059
75°	16275
80°	14544
85°	14506



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	462.7	7.6
10°-20°	1293.7	21.2
20°-30°	1792.5	29.4
30°-40°	1076.7	17.7
40°-50°	589.4	9.7
50°-60°	418.7	6.9
60°-70°	271.8	4.5
70°-80°	145.2	2.4
80°-90°	43.4	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°	3548.9	58.2
0°-40°	4625.6	75.9
0°-60°	5633.6	92.4
0°-90°	6094.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6094.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4926	
5°	4894	463
15°	4598	1294
25°	3997	1792
35°	1534	1077
45°	760	589
55°	464	419
65°	273	272
75°	137	145
85°	41	43
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4926.0
2.5°	4916.9
5°	4894.2
7.5°	4839.5
10°	4757.5
12.5°	4680.1
15°	4598.2
17.5°	4493.5
20°	4366.0
22.5°	4211.2
25°	3997.2
27.5°	3660.3
30°	3150.5
32.5°	2308.2
35°	1534.3
37.5°	1133.6
40°	960.6
42.5°	851.3
45°	760.2
47.5°	673.8
50°	596.4
52.5°	523.5
55°	464.4
57.5°	409.7
60°	359.7
62.5°	314.1
65°	273.1
67.5°	232.2
70°	200.3
72.5°	163.8
75°	136.6
77.5°	109.3
80°	81.9
82.5°	59.2
85°	41.0
87.5°	18.2
90°	0.0



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— 0°-180°







(END OF REPORT)