

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: P585192

Luminaire Tested: **HC880D010-HM86080827-81NDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P585192
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-HM86080827-81NDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" NARROW DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5576.4 lumens
Efficiency: N/A
Efficacy: 79.7 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

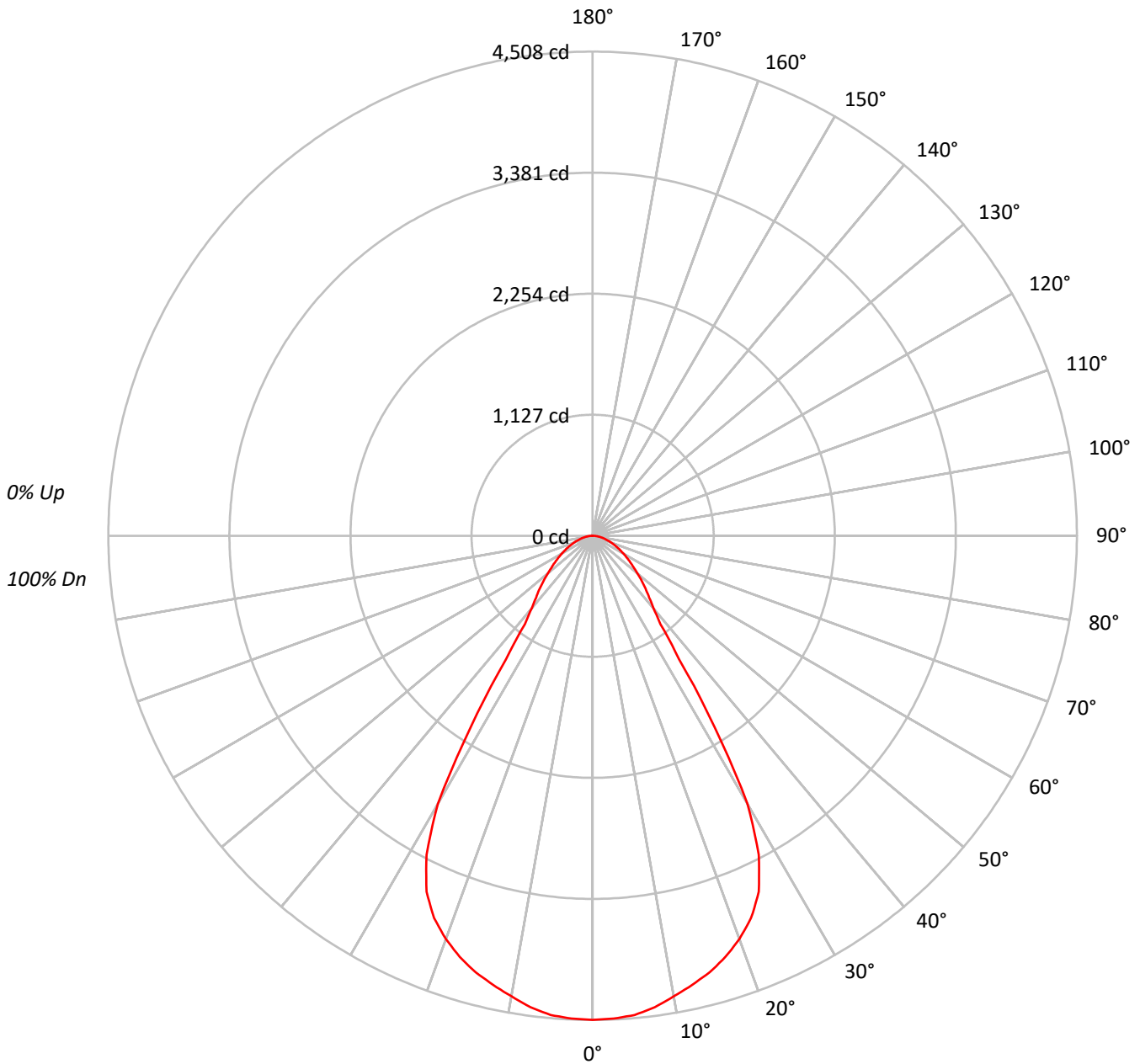
Input Watts (W): 70
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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									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°	138998
5°	138628
10°	136314
15°	134324
20°	131104
25°	124450
30°	102647
35°	52852
40°	35383
45°	30339
50°	26184
55°	22843
60°	20296
65°	18234
70°	16526
75°	14893
80°	13318
85°	13268



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	423.4	7.6
10°-20°	1183.8	21.2
20°-30°	1640.2	29.4
30°-40°	985.2	17.7
40°-50°	539.3	9.7
50°-60°	383.1	6.9
60°-70°	248.7	4.5
70°-80°	132.9	2.4
80°-90°	39.6	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°	3247.5	58.2
0°-40°	4232.7	75.9
0°-60°	5155.1	92.4
0°-90°	5576.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5576.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4508	
5°	4478	423
15°	4208	1184
25°	3658	1640
35°	1404	985
45°	696	539
55°	425	383
65°	250	249
75°	125	133
85°	38	40
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4507.6
2.5°	4499.3
5°	4478.5
7.5°	4428.4
10°	4353.4
12.5°	4282.7
15°	4207.6
17.5°	4111.8
20°	3995.2
22.5°	3853.5
25°	3657.7
27.5°	3349.4
30°	2882.8
32.5°	2112.1
35°	1404.0
37.5°	1037.3
40°	879.0
42.5°	779.0
45°	695.7
47.5°	616.6
50°	545.8
52.5°	479.0
55°	424.9
57.5°	374.9
60°	329.1
62.5°	287.5
65°	249.9
67.5°	212.5
70°	183.3
72.5°	149.9
75°	125.0
77.5°	100.0
80°	75.0
82.5°	54.1
85°	37.5
87.5°	16.6
90°	0.0



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— 0°-180°







(END OF REPORT)