

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: P585209

Luminaire Tested: **HC880D010-HM86080830-81NDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P585209
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-HM86080830-81NDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" NARROW DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5536.0 lumens
Efficiency: N/A
Efficacy: 79.1 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

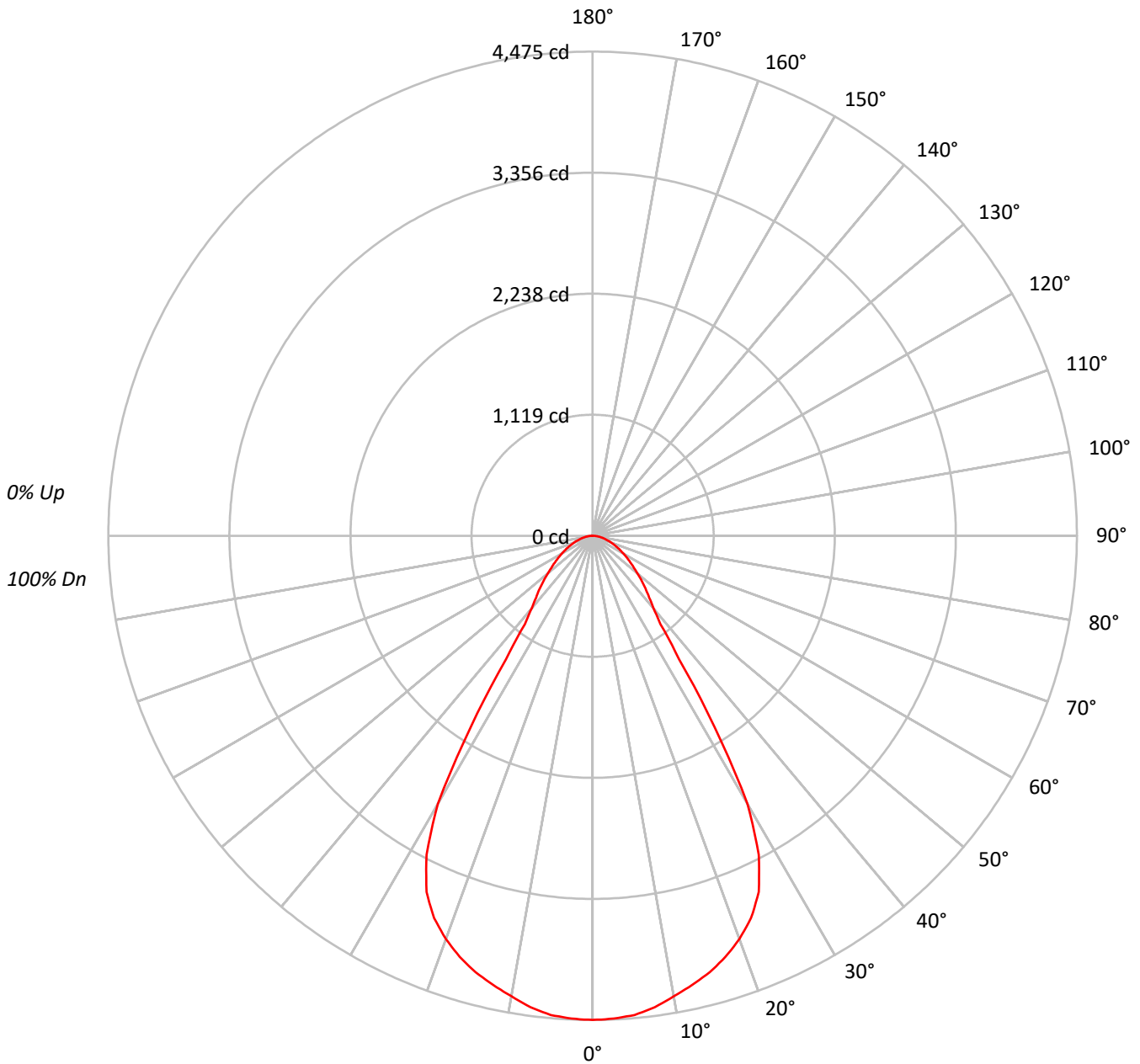
Input Watts (W): 70
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	137989
5°	137622
10°	135327
15°	133353
20°	130155
25°	123548
30°	101906
35°	52465
40°	35126
45°	30121
50°	25992
55°	22682
60°	20148
65°	18103
70°	16400
75°	14786
80°	13212
85°	13162



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	420.4	7.6
10°-20°	1175.3	21.2
20°-30°	1628.4	29.4
30°-40°	978.1	17.7
40°-50°	535.4	9.7
50°-60°	380.4	6.9
60°-70°	246.9	4.5
70°-80°	132.0	2.4
80°-90°	39.3	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°	3224.0	58.2
0°-40°	4202.0	75.9
0°-60°	5117.8	92.4
0°-90°	5536.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5536.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4475	
5°	4446	420
15°	4177	1175
25°	3631	1628
35°	1394	978
45°	691	535
55°	422	380
65°	248	247
75°	124	132
85°	37	39
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4474.9
2.5°	4466.7
5°	4446.0
7.5°	4396.3
10°	4321.9
12.5°	4251.6
15°	4177.2
17.5°	4082.1
20°	3966.3
22.5°	3825.6
25°	3631.2
27.5°	3325.2
30°	2862.0
32.5°	2096.9
35°	1393.7
37.5°	1029.8
40°	872.6
42.5°	773.4
45°	690.7
47.5°	612.1
50°	541.8
52.5°	475.6
55°	421.9
57.5°	372.3
60°	326.7
62.5°	285.4
65°	248.1
67.5°	210.9
70°	181.9
72.5°	148.9
75°	124.1
77.5°	99.3
80°	74.4
82.5°	53.7
85°	37.2
87.5°	16.5
90°	0.0



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— 0°-180°







(END OF REPORT)