

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: P584544

Luminaire Tested: **HC840D010-HM82555835-81NDC**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584544
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-1)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC840D010-HM82555835-81NDC
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" NARROW DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4755.4 lumens
Efficiency: N/A
Efficacy: 116.0 lumens/watt
Spacing Criteria (0/90/45): 0.22 / 0.22 / 0.27
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

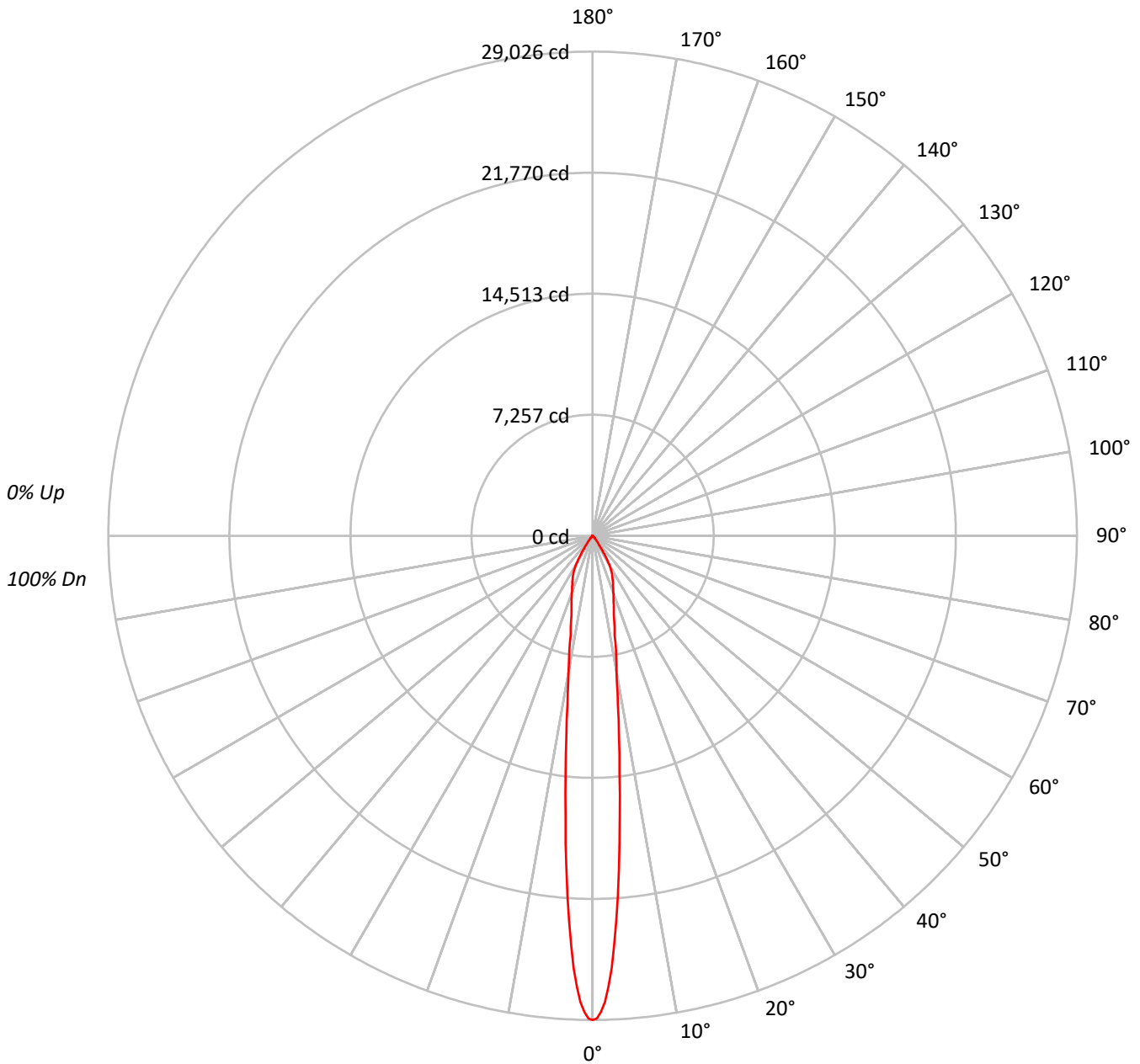
Input Watts (W): 41
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P584544

CATALOG NUMBER: HC840D010-HM82555835-81NDC

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	115	112	110	108	112	110	108	107	106	105	103	102	101	100	99	98	97	96			
2	110	106	103	100	108	104	101	99	101	99	97	98	96	95	96	94	93	91			
3	106	101	97	93	104	99	96	93	97	94	91	95	92	90	92	90	89	87			
4	102	96	91	88	100	95	91	88	93	89	87	91	88	86	89	87	85	83			
5	98	92	87	83	97	91	86	83	89	85	82	87	84	82	86	83	81	80			
6	95	88	83	79	93	87	82	79	86	82	79	84	81	78	83	80	78	76			
7	91	84	79	76	90	83	79	76	82	78	75	81	78	75	80	77	75	73			
8	88	81	76	73	87	80	76	73	79	75	72	78	75	72	77	74	72	71			
9	85	78	73	70	84	77	73	70	76	72	70	76	72	69	75	72	69	68			
10	83	75	70	67	82	75	70	67	74	70	67	73	69	67	73	69	67	66			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	895070
5°	574115
10°	259351
15°	156482
20°	119248
25°	96298
30°	70565
35°	25553
40°	9536
45°	4326
50°	1382
55°	344
60°	197
65°	233
70°	0
75°	0
80°	568
85°	1132



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1414.6	29.7
10°-20°	1436.8	30.2
20°-30°	1286.2	27.0
30°-40°	518.1	10.9
40°-50°	84.9	1.8
50°-60°	7.7	0.2
60°-70°	2.8	0.1
70°-80°	2.1	0.0
80°-90°	3.1	0.1
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°	4137.5	87.0
0°-40°	4655.6	97.9
0°-60°	4748.3	99.9
0°-90°	4756.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4755.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	29026	
5°	18547	###
15°	4902	1437
25°	2830	1286
35°	679	518
45°	99	85
55°	6	8
65°	3	3
75°	0	2
85°	3	3
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	29026.5
0.5°	28936.8
1°	28562.1
1.5°	27960.2
2°	27047.7
2.5°	25968.8
3°	24617.8
3.5°	23135.4
4°	21668.9
4.5°	20026.5
5°	18547.3
5.5°	16936.9
6°	15630.6
6.5°	14269.9
7°	13200.6
7.5°	12070.3
8°	11161.0
8.5°	10248.5
9°	9563.4
9.5°	8807.8
10°	8282.8
12.5°	6108.7
15°	4901.7
17.5°	4187.8
20°	3633.9
22.5°	3192.1
25°	2830.3
27.5°	2468.5
30°	1981.8
32.5°	1274.3
35°	678.8
37.5°	374.6
40°	236.9
42.5°	156.8
45°	99.2
47.5°	60.8
50°	28.8
52.5°	9.6
55°	6.4
57.5°	3.2
60°	3.2
62.5°	3.2
65°	3.2



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CANDELA DISTRIBUTION (continued):

	0°
72.5°	0.0
75°	0.0
77.5°	3.2
80°	3.2
82.5°	3.2
85°	3.2
87.5°	3.2
90°	0.0



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— 0°-180°







67.5°		3.2
70°		0.0



(END OF REPORT)