

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: P584951

Luminaire Tested: **HC855D010-HM82555835-81MDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584951
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-6)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC855D010-HM82555835-81MDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" MEDIUM DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5566.4 lumens
Efficiency: N/A
Efficacy: 107.0 lumens/watt
Spacing Criteria (0/90/45): 1 / 1 / 0.95
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

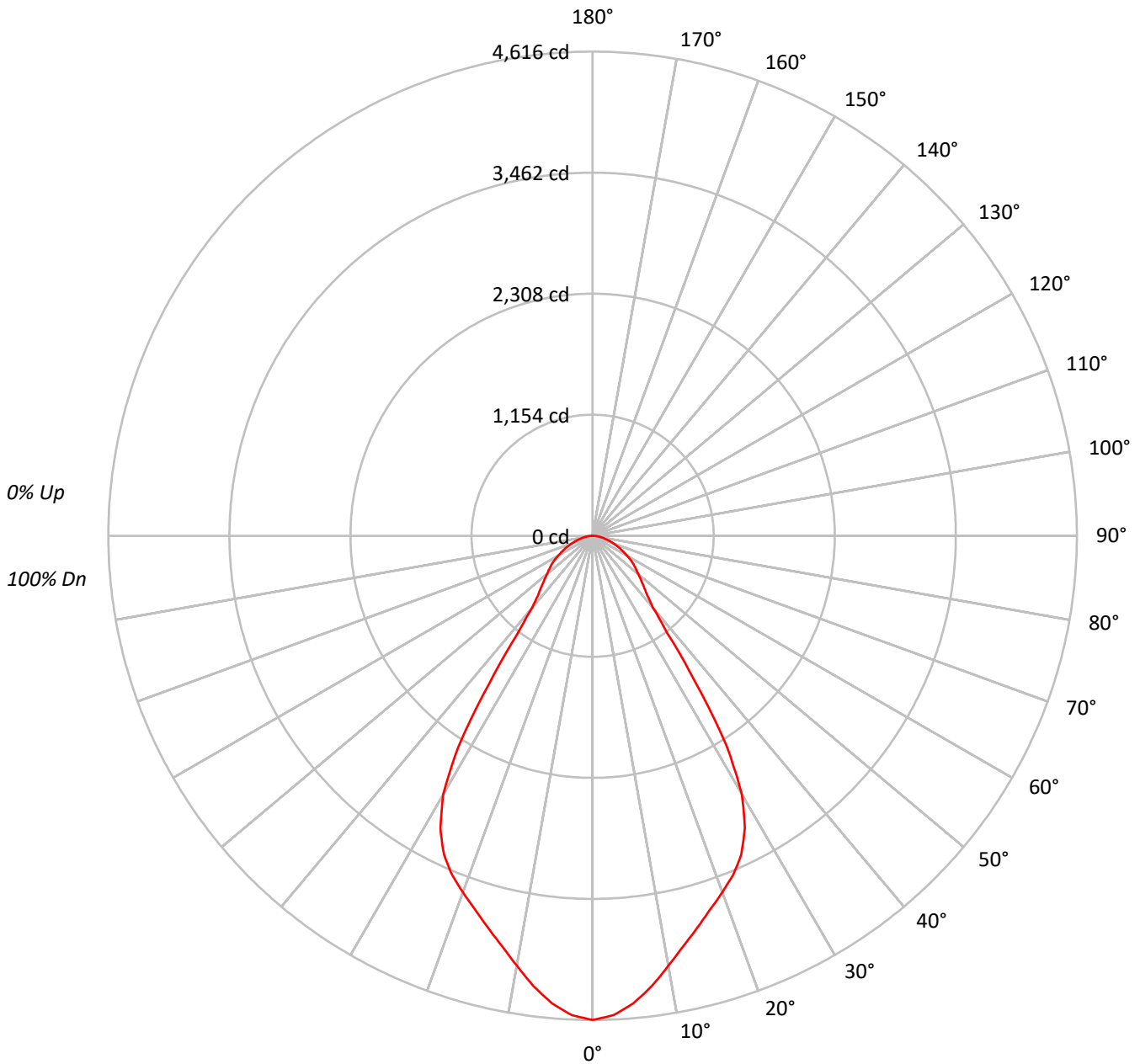
Input Watts (W): 52
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100	102	99	97	98	96	94	94	93	92	90			
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	80			
3	98	89	83	78	95	88	82	78	85	80	76	83	78	75	80	77	74	72			
4	91	82	75	70	89	81	74	69	78	73	69	76	72	68	74	70	67	65			
5	86	76	68	63	84	75	68	63	73	67	62	71	66	62	69	65	61	59			
6	81	70	63	58	79	69	62	57	67	61	57	66	61	56	64	60	56	54			
7	76	65	58	53	74	64	57	53	63	57	52	62	56	52	60	55	52	50			
8	72	61	54	49	70	60	53	49	59	53	48	58	52	48	57	52	48	46			
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43			
10	64	53	46	42	63	53	46	42	52	46	42	51	46	42	50	45	42	40			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	142334
5°	138455
10°	130289
15°	123355
20°	118660
25°	114079
30°	101315
35°	64522
40°	36011
45°	30160
50°	27229
55°	25666
60°	23411
65°	21116
70°	18636
75°	16573
80°	14686
85°	13303



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	417.0	7.5
10°-20°	1089.7	19.6
20°-30°	1520.3	27.3
30°-40°	1093.9	19.7
40°-50°	542.1	9.7
50°-60°	424.2	7.6
60°-70°	287.1	5.2
70°-80°	149.1	2.7
80°-90°	42.9	0.8
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°	3027.0	54.4
0°-40°	4120.9	74.0
0°-60°	5087.2	91.4
0°-90°	5566.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5566.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4616	
5°	4473	417
15°	3864	1090
25°	3353	1520
35°	1714	1094
45°	692	542
55°	477	424
65°	289	287
75°	139	149
85°	38	43
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4615.8
2.5°	4574.4
5°	4472.9
7.5°	4330.1
10°	4161.0
12.5°	4003.1
15°	3864.0
17.5°	3732.5
20°	3616.0
22.5°	3499.4
25°	3352.9
27.5°	3142.4
30°	2845.4
32.5°	2379.3
35°	1714.0
37.5°	1169.0
40°	894.6
42.5°	770.6
45°	691.6
47.5°	624.0
50°	567.6
52.5°	518.7
55°	477.4
57.5°	428.5
60°	379.6
62.5°	330.7
65°	289.4
67.5°	248.1
70°	206.7
72.5°	172.9
75°	139.1
77.5°	109.0
80°	82.7
82.5°	60.1
85°	37.6
87.5°	18.8
90°	0.0



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— 0°-180°







(END OF REPORT)