

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: P584993

Luminaire Tested: **HC855D010-HM82555927-81WDC**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584993
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-7)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC855D010-HM82555927-81WDC
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4918.4 lumens
Efficiency: N/A
Efficacy: 94.6 lumens/watt
Spacing Criteria (0/90/45): 1.1 / 1.1 / 1.05
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

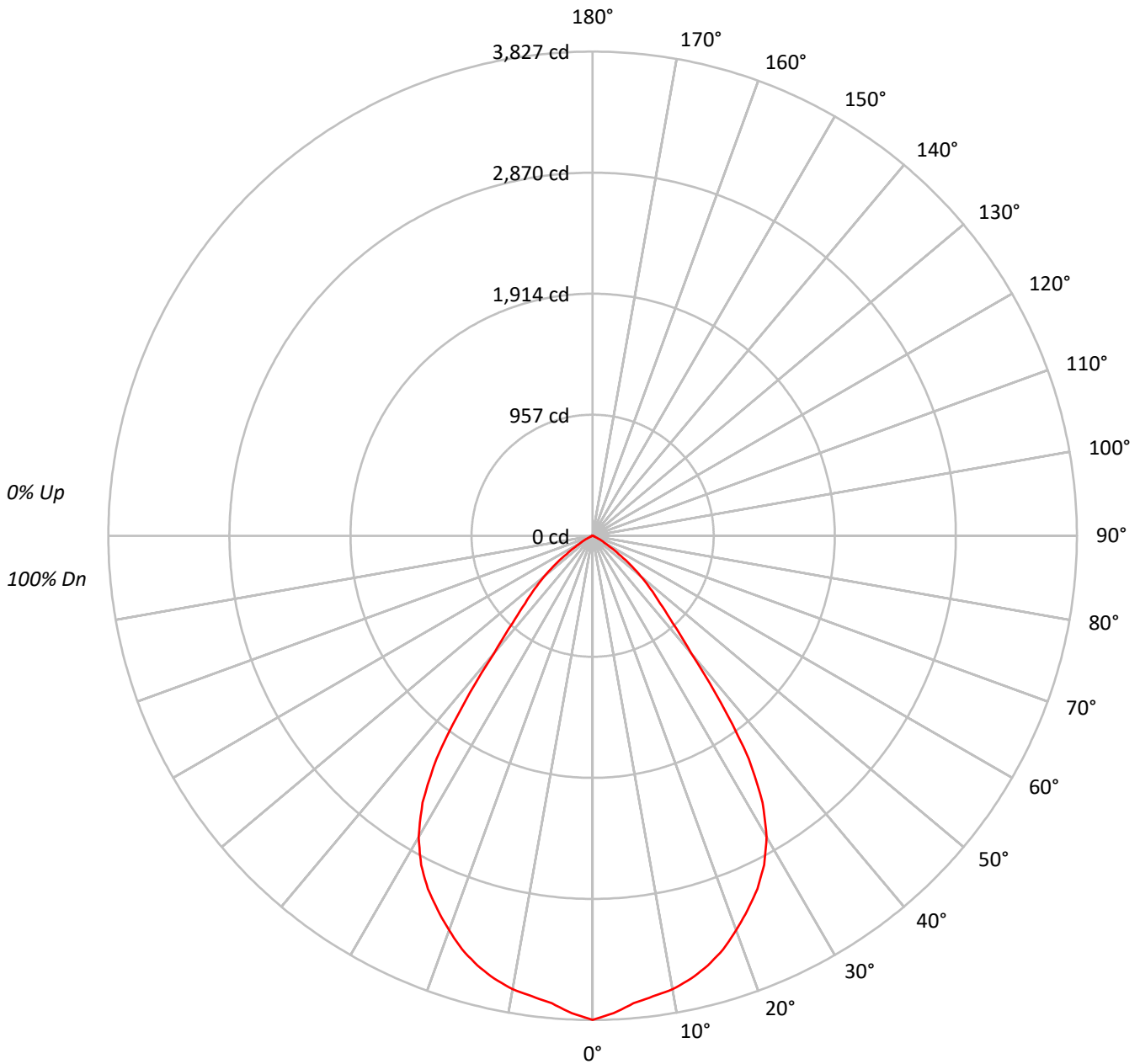
Input Watts (W): 52
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	113	110	107	105	110	108	105	103	104	102	100	100	98	97	96	95	94	92		
2	106	101	96	93	104	99	95	92	96	92	90	93	90	88	90	88	86	84		
3	100	93	87	83	98	91	86	82	89	84	81	86	83	79	84	81	78	77		
4	94	86	79	75	92	84	79	74	82	77	73	80	76	72	78	75	71	70		
5	88	79	72	68	87	78	72	67	76	71	67	74	70	66	73	69	65	64		
6	83	73	66	62	82	72	66	61	71	65	61	69	64	61	68	64	60	59		
7	78	68	61	57	77	67	61	56	66	60	56	65	60	56	63	59	55	54		
8	74	63	57	52	73	63	56	52	62	56	52	60	55	51	59	55	51	50		
9	70	59	53	48	69	59	52	48	58	52	48	57	51	48	56	51	47	46		
10	66	55	49	45	65	55	49	45	54	48	44	53	48	44	52	48	44	43		

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	118004
5°	114827
10°	113957
15°	112261
20°	108858
25°	104798
30°	97894
35°	81010
40°	48913
45°	32942
50°	23737
55°	13532
60°	5958
65°	2138
70°	793
75°	346
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	352.4	7.2
10°-20°	988.2	20.1
20°-30°	1409.7	28.7
30°-40°	1283.7	26.1
40°-50°	605.6	12.3
50°-60°	238.1	4.8
60°-70°	38.0	0.8
70°-80°	2.7	0.1
80°-90°	0.0	0.0
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°	2750.4	55.9
0°-40°	4034.1	82.0
0°-60°	4877.8	99.2
0°-90°	4918.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4918.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3827	
5°	3710	352
15°	3516	988
25°	3080	1410
35°	2152	1284
45°	755	606
55°	252	238
65°	29	38
75°	3	3
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3826.8
2.5°	3777.0
5°	3709.6
7.5°	3671.6
10°	3639.4
12.5°	3586.7
15°	3516.5
17.5°	3428.6
20°	3317.3
22.5°	3200.3
25°	3080.1
27.5°	2933.8
30°	2749.3
32.5°	2500.5
35°	2152.0
37.5°	1663.1
40°	1215.1
42.5°	934.0
45°	755.4
47.5°	620.7
50°	494.8
52.5°	371.9
55°	251.7
57.5°	158.1
60°	96.6
62.5°	58.6
65°	29.3
67.5°	14.6
70°	8.8
72.5°	2.9
75°	2.9
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)