

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: P585036

Luminaire Tested: **HC855D010-HM82555940-81MDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P585036
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-HM82555940-81MDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" MEDIUM DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5737.9 lumens
Efficiency: N/A
Efficacy: 110.3 lumens/watt
Spacing Criteria (0/90/45): 1 / 1 / 0.95
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

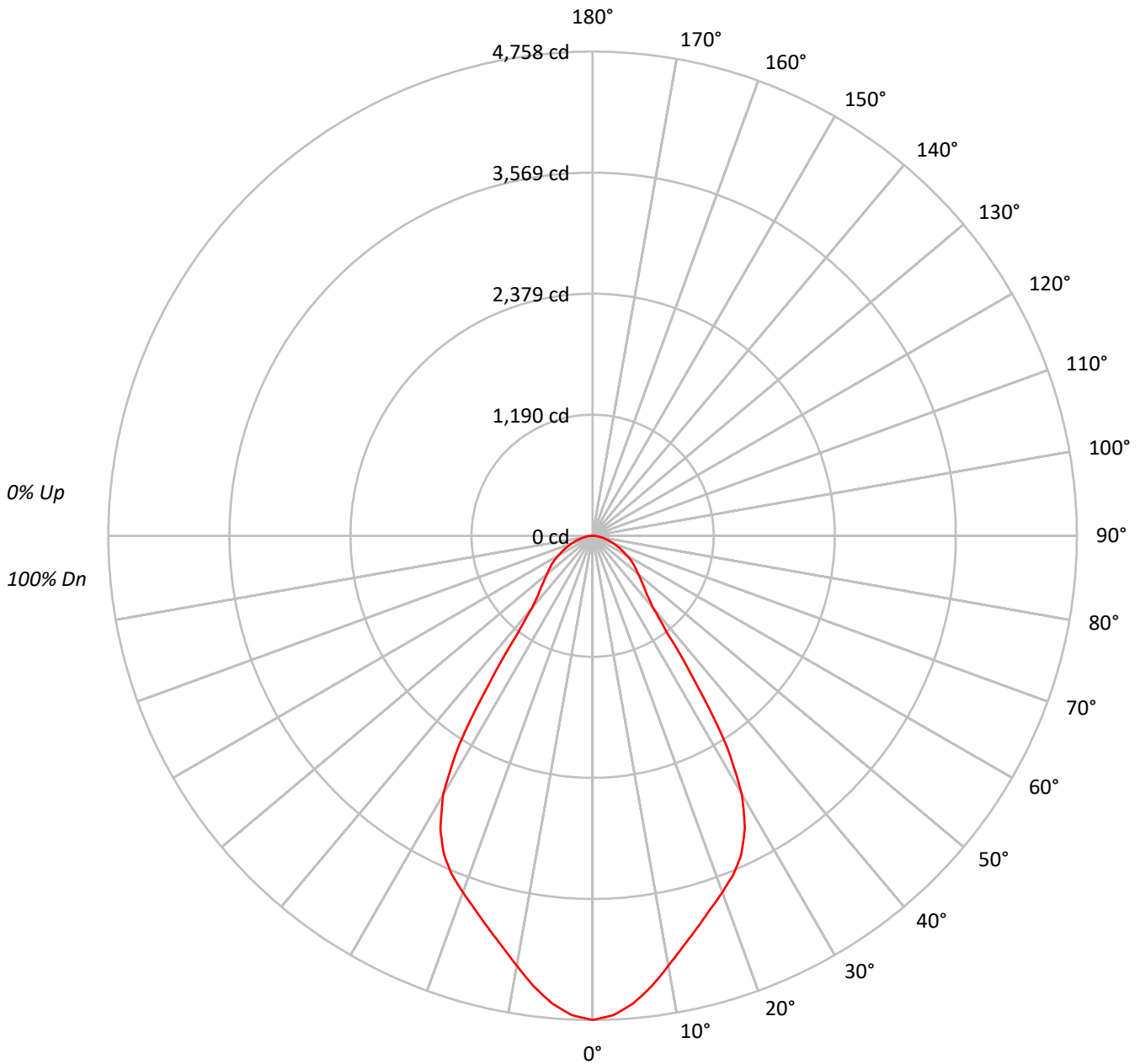
Input Watts (W): 52
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20																	
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	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°	146719
5°	142723
10°	134303
15°	127154
20°	122313
25°	117591
30°	104434
35°	66510
40°	37118
45°	31089
50°	28069
55°	26456
60°	24132
65°	21773
70°	19213
75°	17073
80°	15130
85°	13728



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	429.8	7.5
10°-20°	1123.3	19.6
20°-30°	1567.1	27.3
30°-40°	1127.6	19.7
40°-50°	558.8	9.7
50°-60°	437.2	7.6
60°-70°	296.0	5.2
70°-80°	153.7	2.7
80°-90°	44.3	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°	3120.2	54.4
0°-40°	4247.8	74.0
0°-60°	5243.9	91.4
0°-90°	5737.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5737.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4758	
5°	4611	430
15°	3983	1123
25°	3456	1567
35°	1767	1128
45°	713	559
55°	492	437
65°	298	296
75°	143	154
85°	39	44
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4758.0
2.5°	4715.3
5°	4610.8
7.5°	4463.4
10°	4289.2
12.5°	4126.4
15°	3983.0
17.5°	3847.4
20°	3727.3
22.5°	3607.2
25°	3456.1
27.5°	3239.2
30°	2933.0
32.5°	2452.6
35°	1766.8
37.5°	1204.9
40°	922.1
42.5°	794.3
45°	712.9
47.5°	643.2
50°	585.1
52.5°	534.7
55°	492.1
57.5°	441.7
60°	391.3
62.5°	340.9
65°	298.4
67.5°	255.7
70°	213.1
72.5°	178.3
75°	143.3
77.5°	112.4
80°	85.2
82.5°	62.0
85°	38.8
87.5°	19.3
90°	0.0



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— 0°-180°







(END OF REPORT)