

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: P585131

Luminaire Tested: **HC860D010-HM86080927-81WDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P585131
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-9)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC860D010-HM86080927-81WDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4664.4 lumens
Efficiency: N/A
Efficacy: 83.3 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.06
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

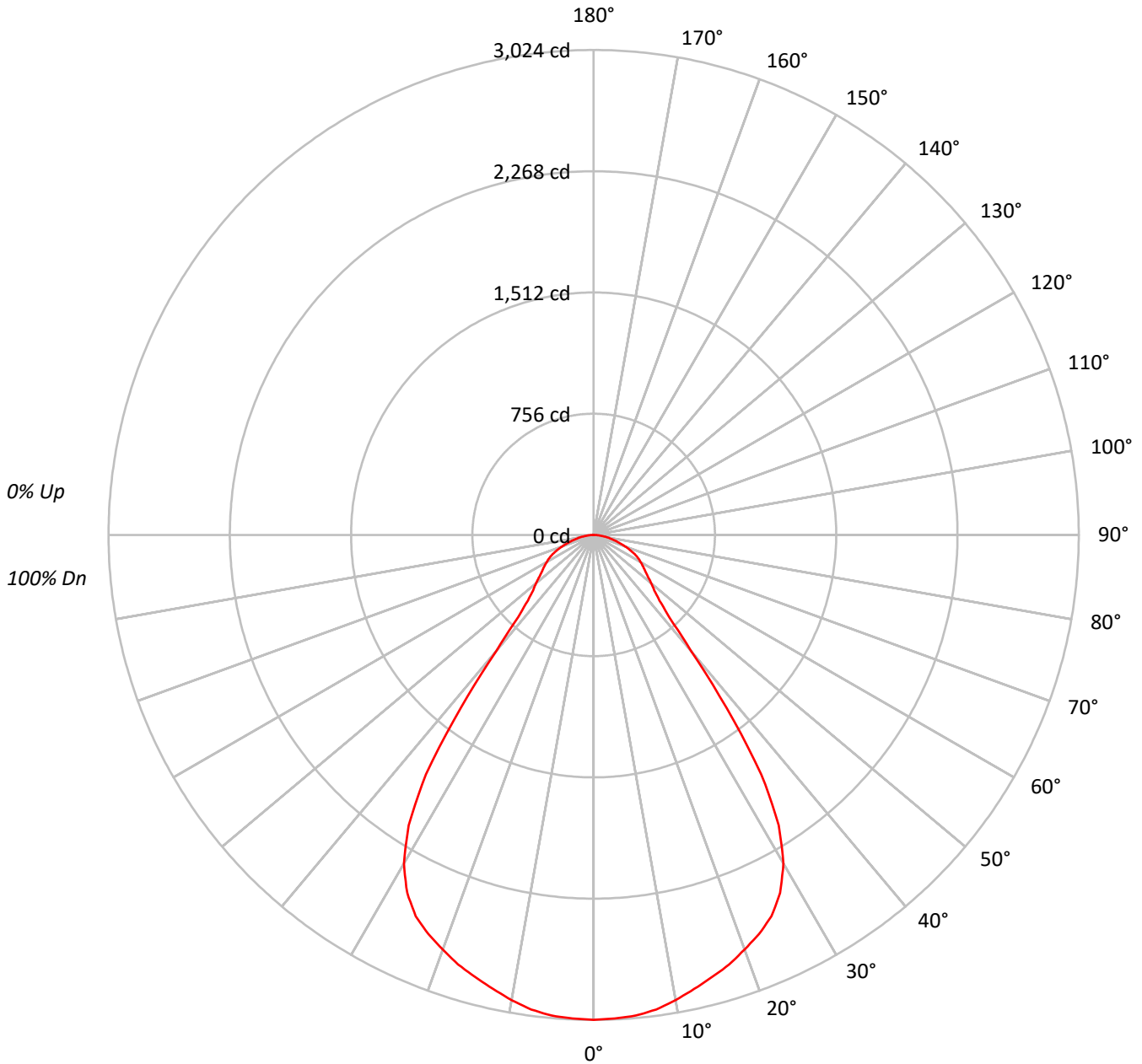
Input Watts (W): 56
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			100
1	111	108	104	101	109	105	102	100	101	99	96	97	95	94	94	92	91	89			89
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81	79			79
3	97	88	82	76	94	87	81	76	84	79	75	81	77	73	79	75	72	70			70
4	90	80	73	68	88	79	73	67	77	71	67	75	70	66	73	68	65	63			63
5	84	74	66	61	82	73	66	61	71	65	60	69	64	59	67	63	59	57			57
6	79	68	61	55	77	67	60	55	65	59	55	64	58	54	62	58	54	52			52
7	74	63	56	50	73	62	55	50	61	54	50	59	54	50	58	53	49	48			48
8	70	58	51	46	69	58	51	46	57	50	46	55	50	46	54	49	45	44			44
9	66	54	47	43	65	54	47	42	53	47	42	52	46	42	51	46	42	40			40
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	37			37

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	93252
5°	93138
10°	92217
15°	91115
20°	90272
25°	89255
30°	84221
35°	68576
40°	37887
45°	25289
50°	22432
55°	21058
60°	20784
65°	20605
70°	18618
75°	16644
80°	14561
85°	12879



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	285.2	6.1
10°-20°	805.9	17.3
20°-30°	1197.5	25.7
30°-40°	1078.3	23.1
40°-50°	478.0	10.2
50°-60°	354.1	7.6
60°-70°	275.3	5.9
70°-80°	149.3	3.2
80°-90°	40.9	0.9
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°	2288.5	49.1
0°-40°	3366.8	72.2
0°-60°	4198.9	90.0
0°-90°	4664.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4664.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3024	
5°	3009	285
15°	2854	806
25°	2623	1197
35°	1822	1078
45°	580	478
55°	392	354
65°	282	275
75°	140	149
85°	36	41
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	3024.1
2.5°	3018.0
5°	3008.9
7.5°	2984.7
10°	2945.1
12.5°	2899.6
15°	2854.1
17.5°	2808.5
20°	2750.9
22.5°	2693.2
25°	2623.3
27.5°	2517.1
30°	2365.3
32.5°	2146.6
35°	1821.7
37.5°	1360.2
40°	941.2
42.5°	695.3
45°	579.9
47.5°	513.1
50°	467.6
52.5°	425.0
55°	391.7
57.5°	364.4
60°	337.0
62.5°	312.7
65°	282.4
67.5°	245.9
70°	206.5
72.5°	173.0
75°	139.7
77.5°	109.3
80°	82.0
82.5°	57.7
85°	36.4
87.5°	15.2
90°	0.0



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— 0°-180°







(END OF REPORT)