

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: P593915

Luminaire Tested: **HC880D010-HM86080950-81MDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P593915
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: HC880D010-HM86080950-81MDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" MEDIUM DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6740.3 lumens
Efficiency: N/A
Efficacy: 96.3 lumens/watt
Spacing Criteria (0/90/45): 1 / 1 / 0.95
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

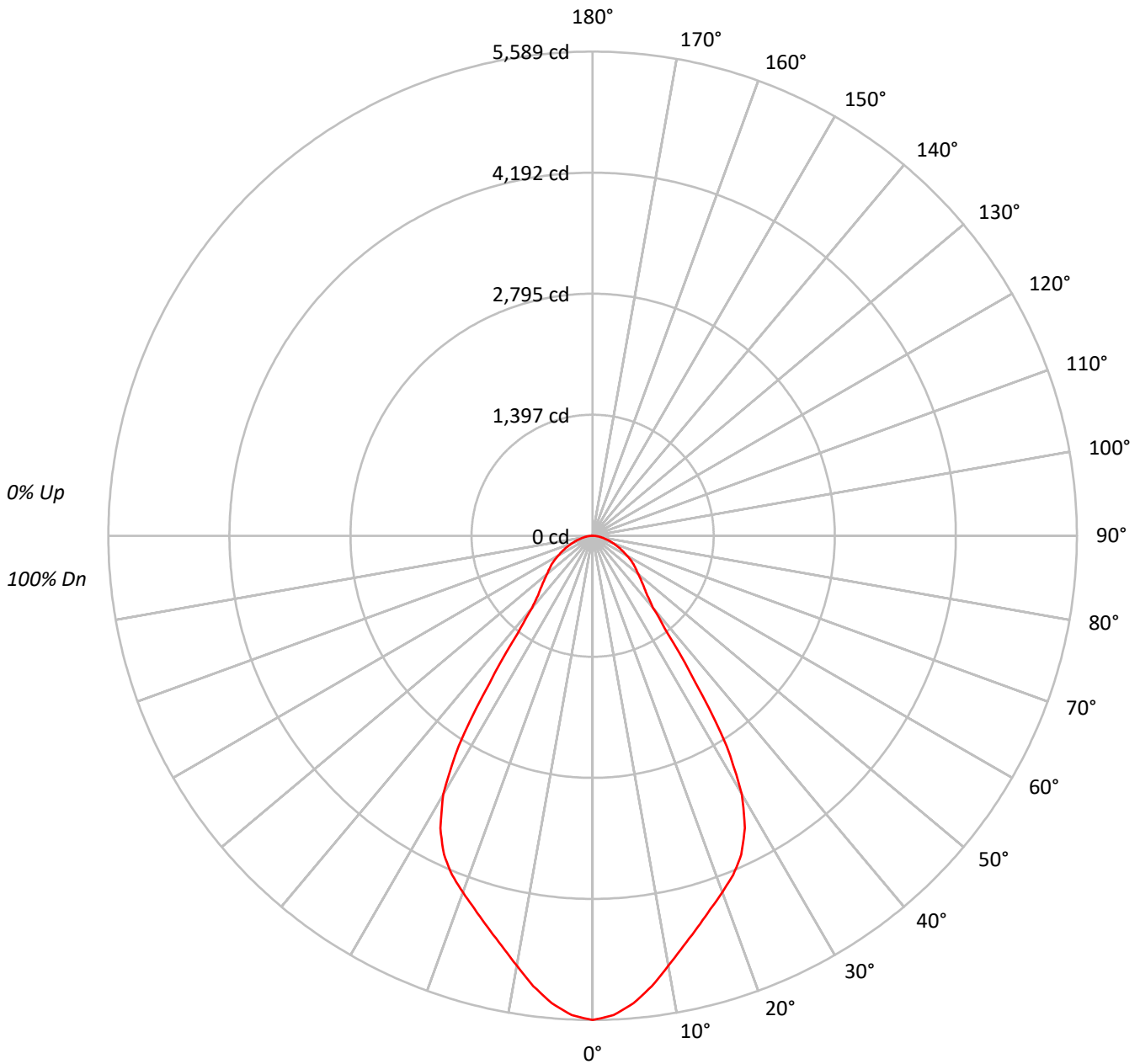
Input Watts (W): 70
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	172353
5°	167657
10°	157766
15°	149373
20°	143682
25°	138138
30°	122683
35°	78131
40°	43607
45°	36523
50°	32967
55°	31080
60°	28351
65°	25574
70°	22567
75°	20064
80°	17776
85°	16098



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	504.9	7.5
10°-20°	1319.6	19.6
20°-30°	1840.9	27.3
30°-40°	1324.6	19.7
40°-50°	656.4	9.7
50°-60°	513.6	7.6
60°-70°	347.7	5.2
70°-80°	180.6	2.7
80°-90°	52.0	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°	3665.4	54.4
0°-40°	4990.0	74.0
0°-60°	6160.1	91.4
0°-90°	6740.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6740.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5589	
5°	5416	505
15°	4679	1320
25°	4060	1841
35°	2076	1325
45°	838	656
55°	578	514
65°	350	348
75°	168	181
85°	46	52
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	5589.3
2.5°	5539.2
5°	5416.3
7.5°	5243.3
10°	5038.5
12.5°	4847.3
15°	4679.0
17.5°	4519.6
20°	4378.5
22.5°	4237.5
25°	4060.0
27.5°	3805.0
30°	3445.5
32.5°	2881.1
35°	2075.5
37.5°	1415.5
40°	1083.3
42.5°	933.0
45°	837.5
47.5°	755.5
50°	687.2
52.5°	628.1
55°	578.1
57.5°	518.9
60°	459.7
62.5°	400.6
65°	350.5
67.5°	300.3
70°	250.3
72.5°	209.4
75°	168.4
77.5°	132.0
80°	100.1
82.5°	72.8
85°	45.5
87.5°	22.7
90°	0.0



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— 0°-180°







(END OF REPORT)