

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: P585189

Luminaire Tested: **HC880D010-HM86080827-81MDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P585189
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-HM86080827-81MDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" MEDIUM DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6168.0 lumens
Efficiency: N/A
Efficacy: 88.1 lumens/watt
Spacing Criteria (0/90/45): 1 / 1 / 0.95
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

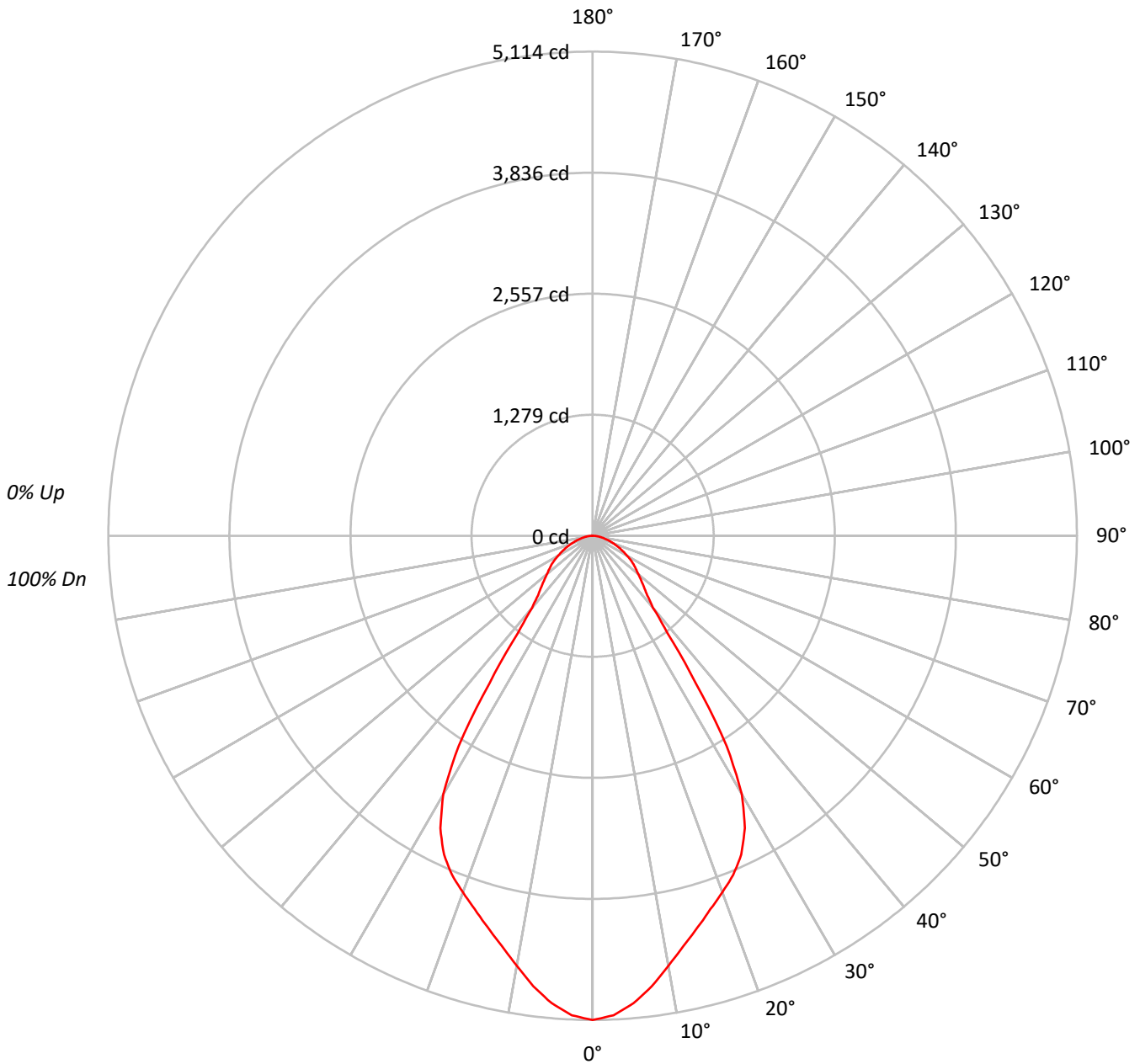
Input Watts (W): 70
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	157712
5°	153415
10°	144367
15°	136686
20°	131481
25°	126403
30°	112264
35°	71494
40°	39904
45°	33418
50°	30170
55°	28440
60°	25946
65°	23400
70°	20656
75°	18360
80°	16284
85°	14718



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	462.1	7.5
10°-20°	1207.5	19.6
20°-30°	1684.5	27.3
30°-40°	1212.1	19.7
40°-50°	600.7	9.7
50°-60°	470.0	7.6
60°-70°	318.2	5.2
70°-80°	165.2	2.7
80°-90°	47.6	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°	3354.1	54.4
0°-40°	4566.2	74.0
0°-60°	5636.9	91.4
0°-90°	6168.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6168.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5114	
5°	4956	462
15°	4282	1208
25°	3715	1685
35°	1899	1212
45°	766	601
55°	529	470
65°	321	318
75°	154	165
85°	42	48
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	5114.5
2.5°	5068.7
5°	4956.2
7.5°	4798.0
10°	4610.6
12.5°	4435.7
15°	4281.6
17.5°	4135.8
20°	4006.7
22.5°	3877.6
25°	3715.1
27.5°	3481.9
30°	3152.9
32.5°	2636.4
35°	1899.2
37.5°	1295.3
40°	991.3
42.5°	853.8
45°	766.3
47.5°	691.4
50°	628.9
52.5°	574.8
55°	529.0
57.5°	474.8
60°	420.7
62.5°	366.6
65°	320.7
67.5°	274.9
70°	229.1
72.5°	191.5
75°	154.1
77.5°	120.8
80°	91.7
82.5°	66.6
85°	41.6
87.5°	20.8
90°	0.0



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— 0°-180°







(END OF REPORT)