

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: P585301

Luminaire Tested: **HC880D010-HM86080935-81WDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P585301
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: HC880D010-HM86080935-81WDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6777.3 lumens
Efficiency: N/A
Efficacy: 96.8 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

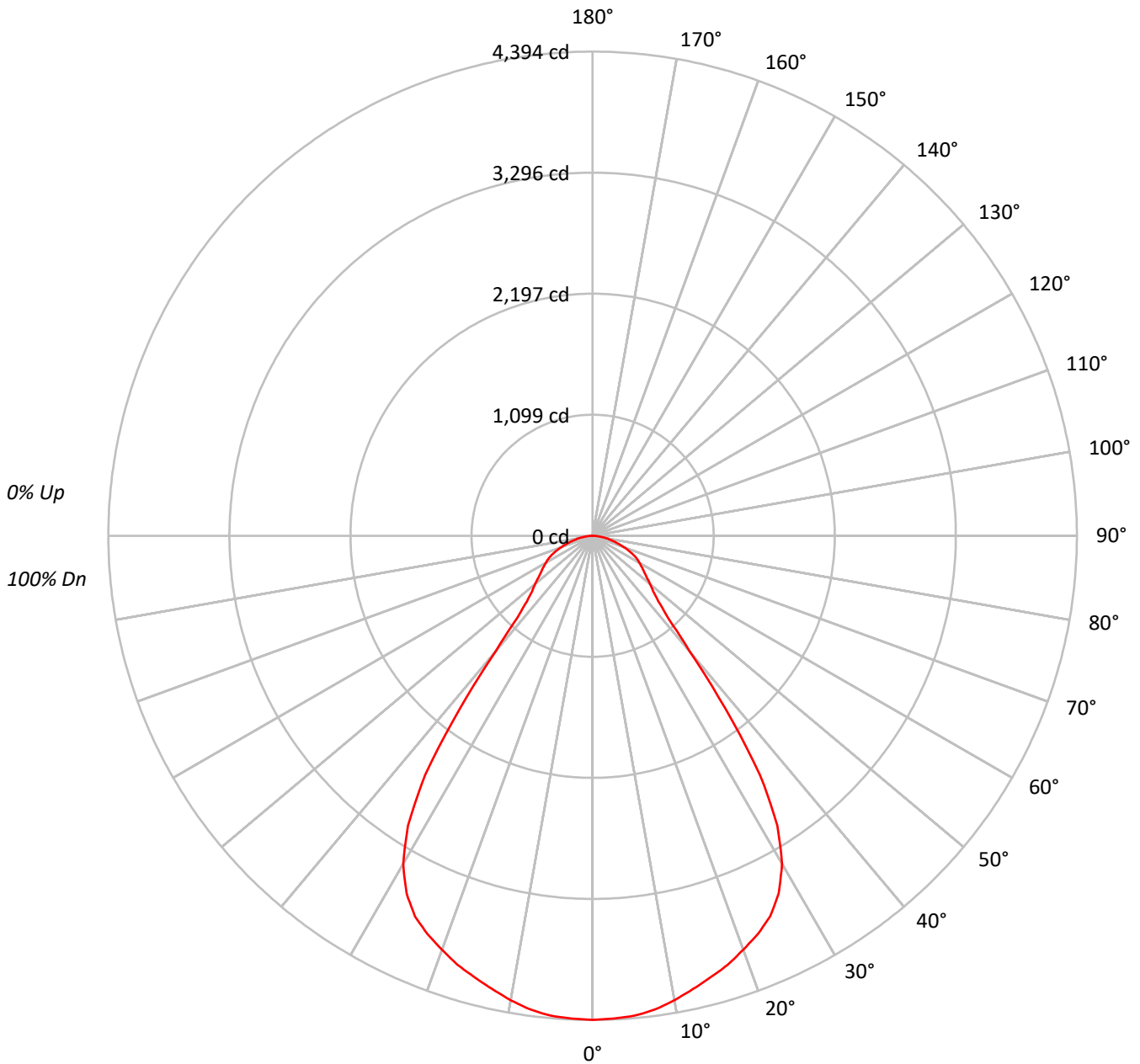
Input Watts (W): 70
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	135492
5°	135331
10°	133990
15°	132386
20°	131160
25°	129686
30°	122370
35°	99644
40°	55051
45°	36745
50°	32593
55°	30596
60°	30195
65°	29938
70°	27048
75°	24186
80°	21150
85°	18716



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	414.4	6.1
10°-20°	1170.9	17.3
20°-30°	1739.9	25.7
30°-40°	1566.9	23.1
40°-50°	694.6	10.2
50°-60°	514.4	7.6
60°-70°	400.0	5.9
70°-80°	216.9	3.2
80°-90°	59.4	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°	3325.1	49.1
0°-40°	4892.0	72.2
0°-60°	6101.0	90.0
0°-90°	6777.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6777.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4394	
5°	4372	414
15°	4147	1171
25°	3812	1740
35°	2647	1567
45°	843	695
55°	569	514
65°	410	400
75°	203	217
85°	53	59
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	4393.9
2.5°	4385.2
5°	4372.0
7.5°	4336.6
10°	4279.2
12.5°	4213.1
15°	4146.9
17.5°	4080.8
20°	3996.9
22.5°	3913.1
25°	3811.6
27.5°	3657.2
30°	3436.7
32.5°	3119.0
35°	2647.0
37.5°	1976.4
40°	1367.6
42.5°	1010.3
45°	842.6
47.5°	745.5
50°	679.4
52.5°	617.6
55°	569.1
57.5°	529.3
60°	489.6
62.5°	454.4
65°	410.3
67.5°	357.3
70°	300.0
72.5°	251.5
75°	203.0
77.5°	158.9
80°	119.1
82.5°	83.8
85°	52.9
87.5°	22.1
90°	0.0



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— 0°-180°







(END OF REPORT)