

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: P585216

Luminaire Tested: **HC880D010-HM86080830-81WDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P585216
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-HM86080830-81WDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6350.7 lumens
Efficiency: N/A
Efficacy: 90.7 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

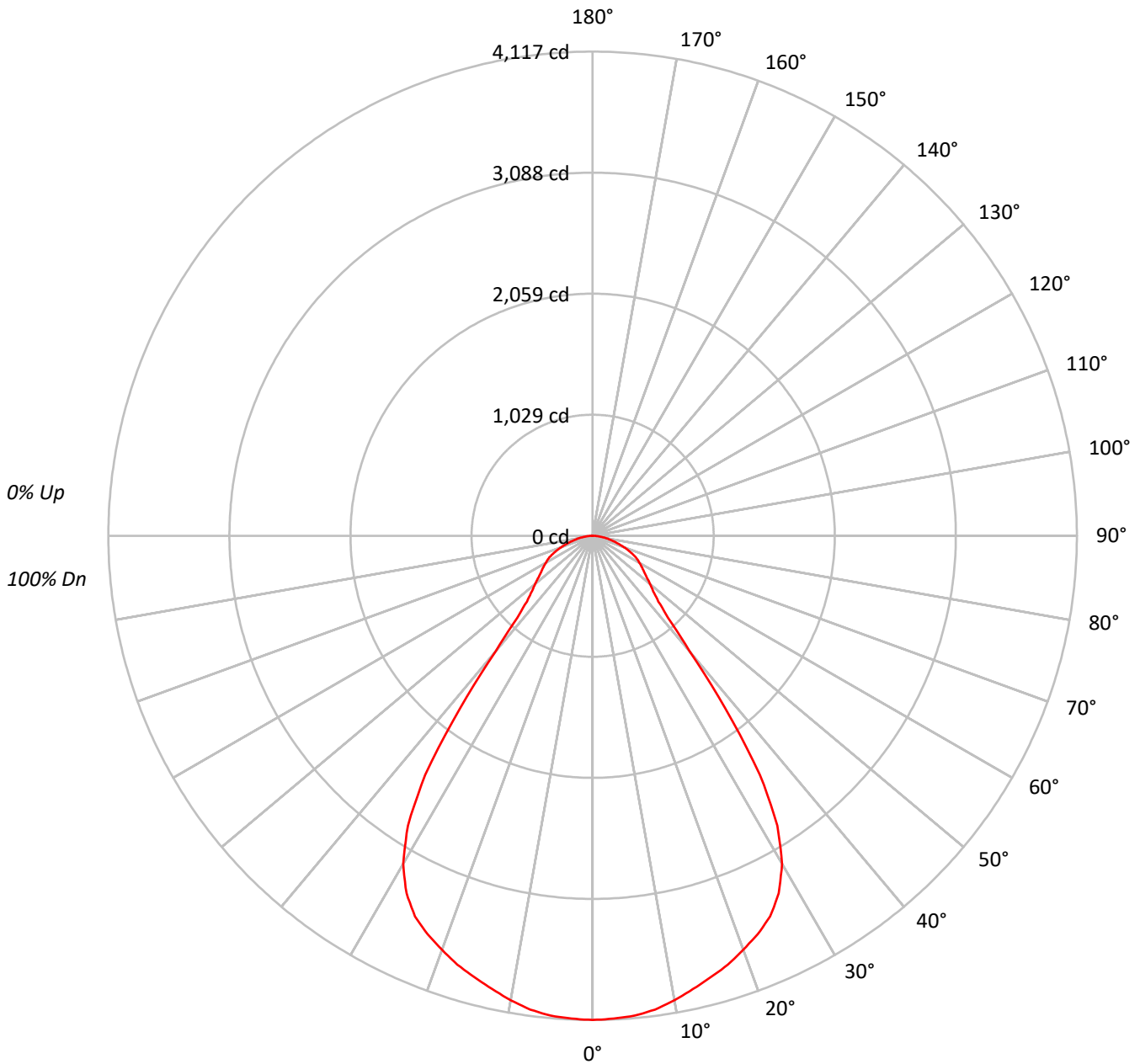
Input Watts (W): 70
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	126962
5°	126807
10°	125555
15°	124051
20°	122900
25°	121521
30°	114664
35°	93369
40°	51585
45°	34434
50°	30539
55°	28671
60°	28295
65°	28048
70°	25344
75°	22649
80°	19818
85°	17549



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	388.3	6.1
10°-20°	1097.2	17.3
20°-30°	1630.3	25.7
30°-40°	1468.2	23.1
40°-50°	650.9	10.2
50°-60°	482.0	7.6
60°-70°	374.8	5.9
70°-80°	203.3	3.2
80°-90°	55.7	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°	3115.7	49.1
0°-40°	4584.0	72.2
0°-60°	5716.9	90.0
0°-90°	6350.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6350.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4117	
5°	4097	388
15°	3886	1097
25°	3572	1630
35°	2480	1468
45°	790	651
55°	533	482
65°	384	375
75°	190	203
85°	50	56
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4117.3
2.5°	4109.1
5°	4096.6
7.5°	4063.5
10°	4009.8
12.5°	3947.8
15°	3885.8
17.5°	3823.8
20°	3745.2
22.5°	3666.8
25°	3571.6
27.5°	3426.9
30°	3220.3
32.5°	2922.7
35°	2480.3
37.5°	1852.0
40°	1281.5
42.5°	946.7
45°	789.6
47.5°	698.7
50°	636.6
52.5°	578.7
55°	533.3
57.5°	496.1
60°	458.8
62.5°	425.8
65°	384.4
67.5°	334.8
70°	281.1
72.5°	235.7
75°	190.1
77.5°	148.9
80°	111.6
82.5°	78.6
85°	49.6
87.5°	20.7
90°	0.0



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— 0°-180°







(END OF REPORT)