

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: P584033

Luminaire Tested: **HC820D010-HM80520927-81MDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584033
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: HC820D010-HM80520927-81MDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" MEDIUM DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

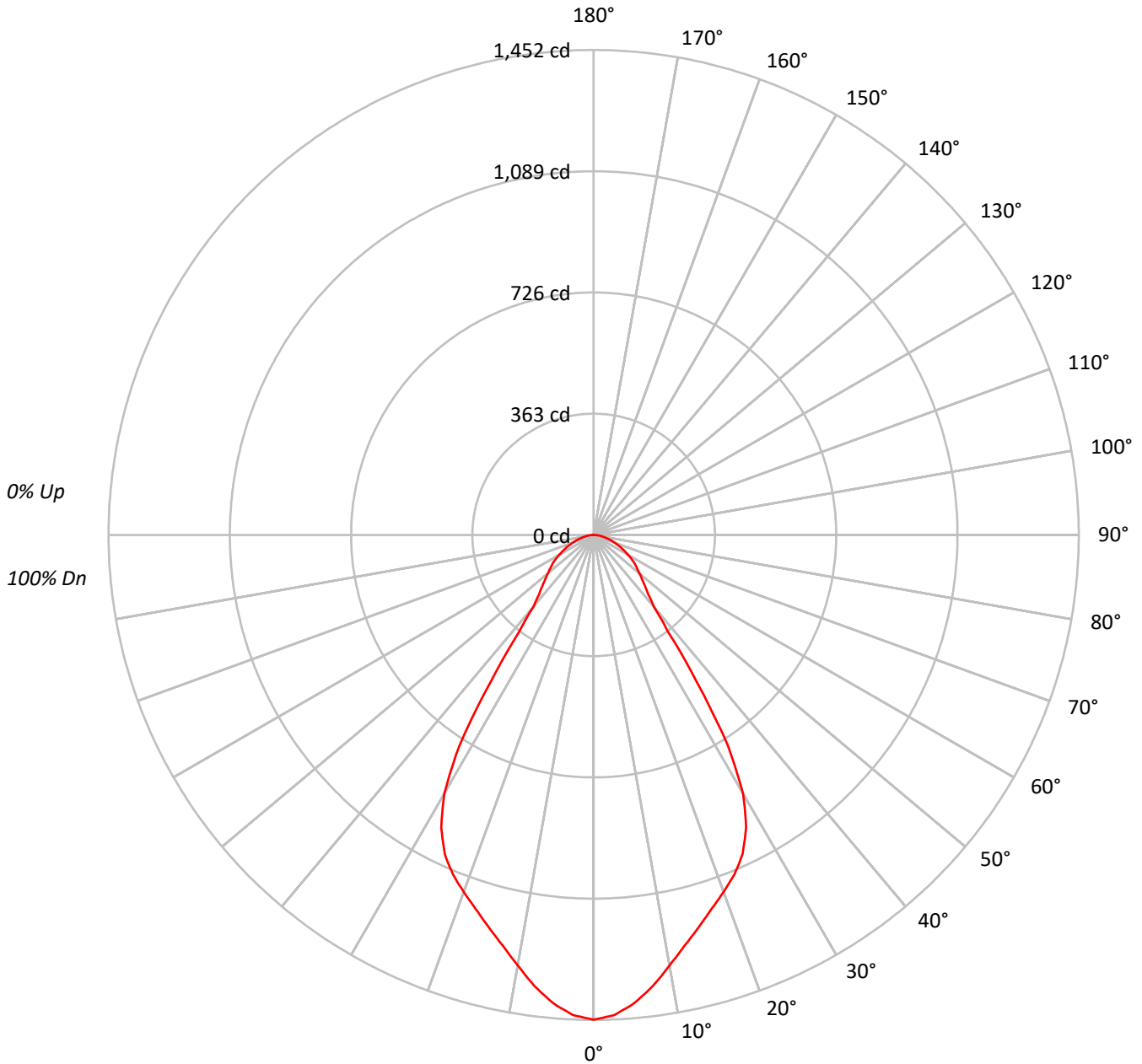
Lumens per Lamp: N/A
Luminaire Lumens: 1750.5 lumens
Efficiency: N/A
Efficacy: 87.5 lumens/watt
Spacing Criteria (0/90/45): 1 / 1 / 0.95
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

Input Watts (W): 20
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°	44762
5°	43543
10°	40975
15°	38794
20°	37318
25°	35878
30°	31861
35°	20290
40°	11323
45°	9485
50°	8563
55°	8070
60°	7364
65°	6640
70°	5860
75°	5207
80°	4617
85°	4175



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.1	7.5
10°-20°	342.7	19.6
20°-30°	478.1	27.3
30°-40°	344.0	19.7
40°-50°	170.5	9.7
50°-60°	133.4	7.6
60°-70°	90.3	5.2
70°-80°	46.9	2.7
80°-90°	13.5	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°	952.0	54.4
0°-40°	1296.0	74.0
0°-60°	1599.8	91.4
0°-90°	1750.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1750.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1452	
5°	1407	131
15°	1215	343
25°	1054	478
35°	539	344
45°	218	170
55°	150	133
65°	91	90
75°	44	47
85°	12	13
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1451.6
2.5°	1438.6
5°	1406.7
7.5°	1361.8
10°	1308.6
12.5°	1258.9
15°	1215.2
17.5°	1173.8
20°	1137.2
22.5°	1100.6
25°	1054.5
27.5°	988.2
30°	894.8
32.5°	748.2
35°	539.0
37.5°	367.6
40°	281.3
42.5°	242.3
45°	217.5
47.5°	196.2
50°	178.5
52.5°	163.1
55°	150.1
57.5°	134.7
60°	119.4
62.5°	104.0
65°	91.0
67.5°	78.0
70°	65.0
72.5°	54.4
75°	43.7
77.5°	34.3
80°	26.0
82.5°	18.9
85°	11.8
87.5°	5.9
90°	0.0



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— 0°-180°







(END OF REPORT)