

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: P584043

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

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584043
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: HC820D010-HM80520927-81WDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1815.7 lumens
Efficiency: N/A
Efficacy: 90.8 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

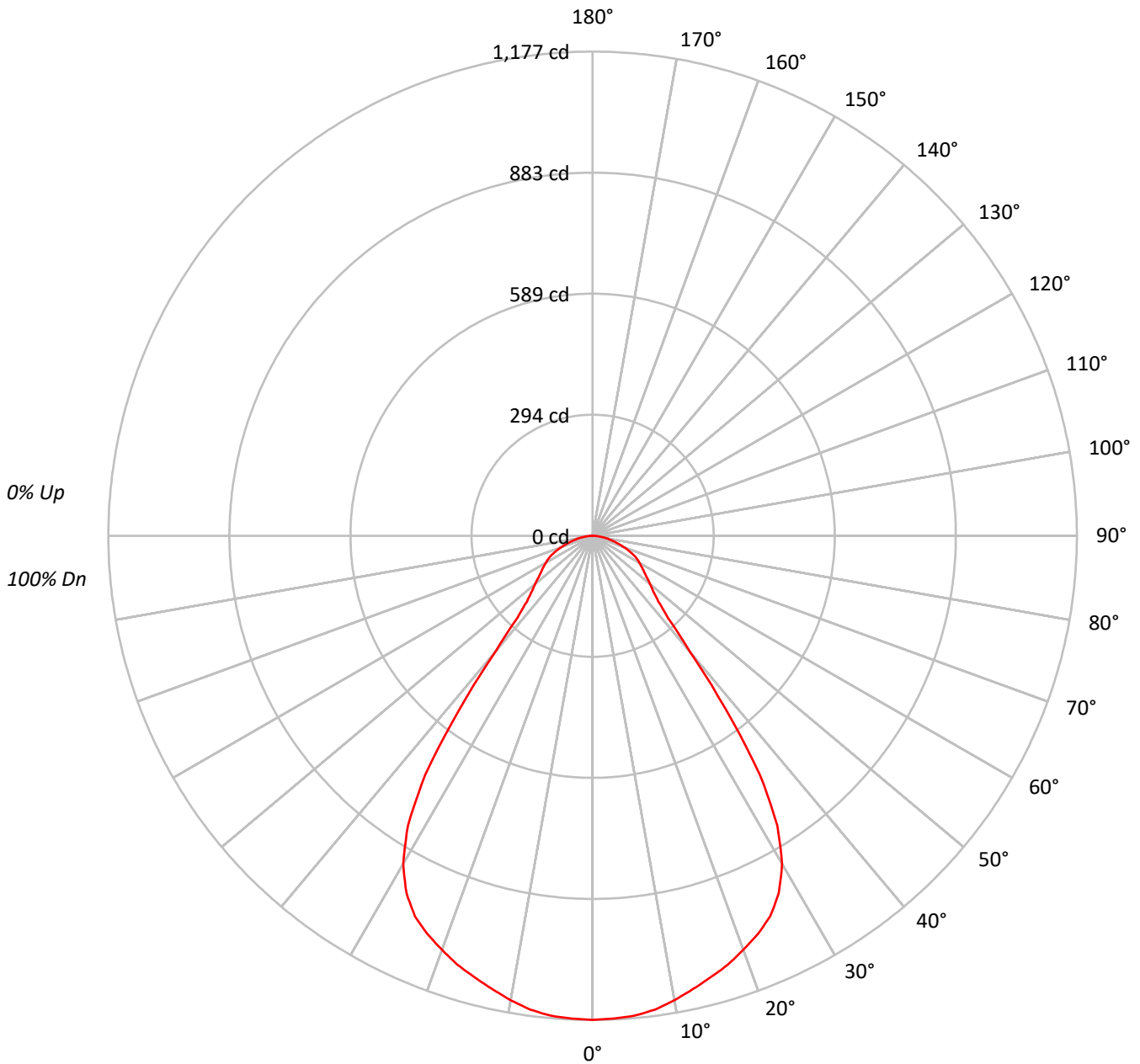
Input Watts (W): 20
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			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°	36294
5°	36250
10°	35893
15°	35461
20°	35139
25°	34742
30°	32783
35°	26693
40°	14745
45°	9847
50°	8731
55°	8199
60°	8091
65°	8019
70°	7249
75°	6481
80°	5665
85°	5024



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.0	6.1
10°-20°	313.7	17.3
20°-30°	466.1	25.7
30°-40°	419.7	23.1
40°-50°	186.1	10.3
50°-60°	137.8	7.6
60°-70°	107.2	5.9
70°-80°	58.1	3.2
80°-90°	15.9	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°	890.8	49.1
0°-40°	1310.5	72.2
0°-60°	1634.4	90.0
0°-90°	1815.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1815.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1177	
5°	1171	111
15°	1111	314
25°	1021	466
35°	709	420
45°	226	186
55°	152	138
65°	110	107
75°	54	58
85°	14	16
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1177.0
2.5°	1174.7
5°	1171.1
7.5°	1161.7
10°	1146.3
12.5°	1128.6
15°	1110.8
17.5°	1093.1
20°	1070.8
22.5°	1048.3
25°	1021.1
27.5°	979.8
30°	920.7
32.5°	835.6
35°	709.1
37.5°	529.4
40°	366.3
42.5°	270.7
45°	225.8
47.5°	199.8
50°	182.0
52.5°	165.5
55°	152.5
57.5°	141.8
60°	131.2
62.5°	121.7
65°	109.9
67.5°	95.7
70°	80.4
72.5°	67.4
75°	54.4
77.5°	42.6
80°	31.9
82.5°	22.5
85°	14.2
87.5°	5.9
90°	0.0



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— 0°-180°







(END OF REPORT)