

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: P581275

Luminaire Tested: **HC460D010-HM44560827-41WDW**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P581275
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-9)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC460D010-HM44560827-41WDW
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4576.9 lumens
Efficiency: N/A
Efficacy: 83.2 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.07 / 1.04
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

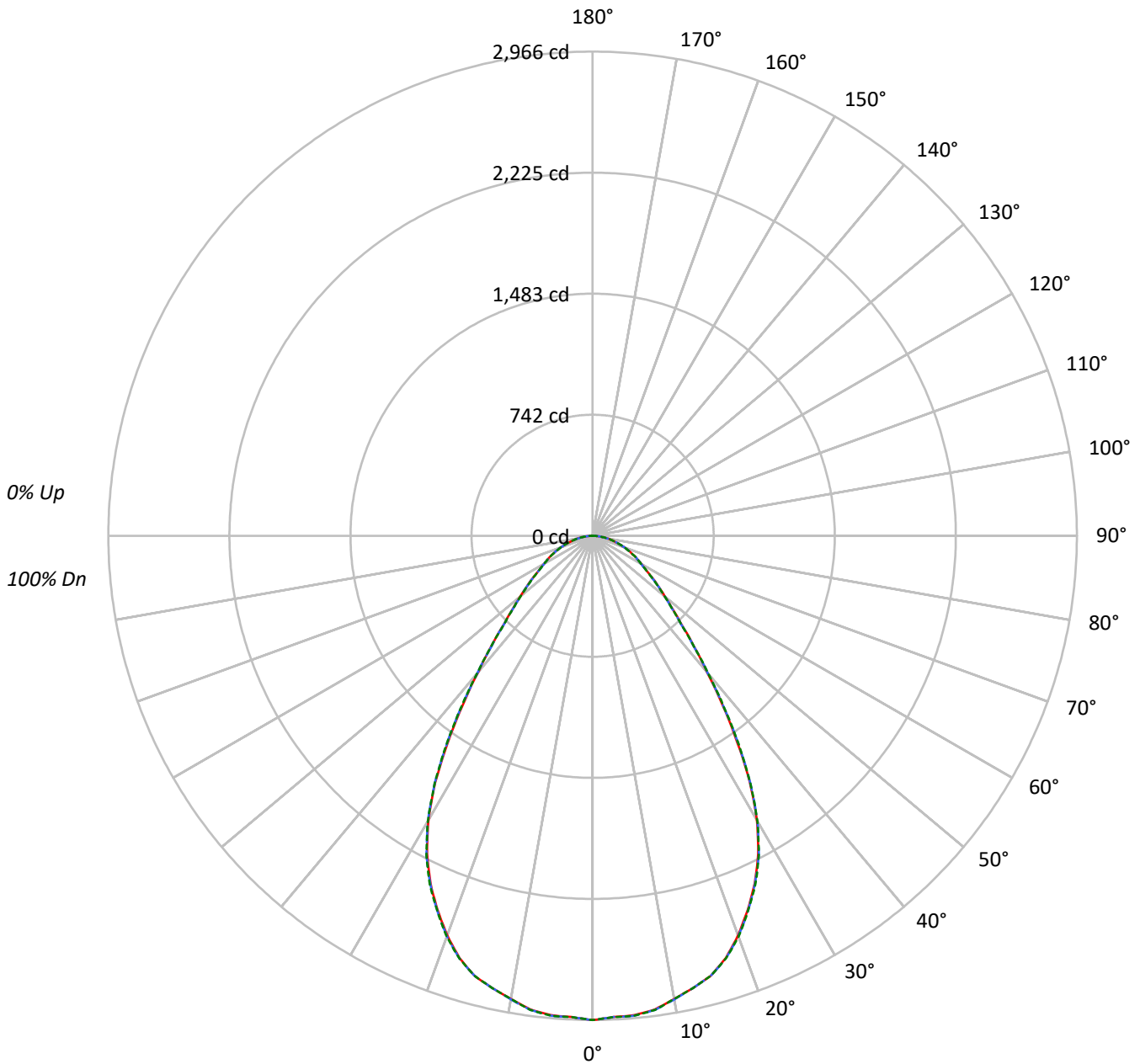
Input Watts (W): 55
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	107	104	101	108	105	102	99	101	98	96	97	95	93	94	92	90	89			89
2	103	97	91	87	101	95	90	86	91	87	84	88	85	82	85	83	80	78			78
3	96	87	81	76	94	86	80	75	83	78	74	81	76	72	78	74	71	69			69
4	90	80	72	67	87	78	72	66	76	70	66	74	69	65	72	68	64	62			62
5	84	73	65	60	82	72	65	59	70	64	59	68	63	58	66	62	58	56			56
6	78	67	59	54	77	66	59	54	64	58	53	63	57	53	61	56	53	51			51
7	73	62	54	49	72	61	54	49	60	53	49	58	53	48	57	52	48	46			46
8	69	57	50	45	68	57	50	45	55	49	45	54	49	44	53	48	44	42			42
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	45	41	39			39
10	61	50	43	38	60	49	43	38	48	42	38	48	42	38	47	42	38	36			36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	365905	365905	365905
5°	365012	365408	365408
10°	360778	361166	360778
15°	356466	356466	356466
20°	341819	342632	343039
25°	319732	320141	320971
30°	286478	287347	287347
35°	232597	234449	234900
40°	175540	176522	177005
45°	134456	133915	133915
50°	110779	110203	110203
55°	95094	94427	94427
60°	84837	84097	84097
65°	79766	79766	79766
70°	74183	74183	74183
75°	67292	68817	67292
80°	63289	61087	63289
85°	52222	52222	52222



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	279.5	6.1
10°-20°	782.2	17.1
20°-30°	1074.8	23.5
30°-40°	966.4	21.1
40°-50°	610.6	13.3
50°-60°	398.7	8.7
60°-70°	270.1	5.9
70°-80°	152.0	3.3
80°-90°	42.7	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°	2136.4	46.7
0°-40°	3102.8	67.8
0°-60°	4112.1	89.8
0°-90°	4576.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4576.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2966	2966	2966	2966	2966	
5°	2948	2948	2951	2951	2951	279
15°	2792	2792	2792	2792	2792	782
25°	2349	2352	2352	2358	2358	1072
35°	1545	1551	1557	1563	1560	962
45°	771	768	768	768	768	611
55°	442	442	439	442	439	400
65°	273	273	273	273	273	271
75°	141	144	144	144	141	151
85°	37	37	37	37	37	43
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2966.5	2966.5	2966.5	2966.5	2966.5
2.5°	2951.2	2951.2	2951.2	2951.2	2951.2
5°	2948.0	2948.0	2951.2	2951.2	2951.2
7.5°	2926.6	2929.6	2929.6	2929.6	2929.6
10°	2880.5	2880.5	2883.6	2883.6	2880.5
12.5°	2837.5	2837.5	2837.5	2840.5	2837.5
15°	2791.5	2791.5	2791.5	2791.5	2791.5
17.5°	2711.6	2714.6	2714.6	2714.6	2714.6
20°	2604.1	2610.3	2610.3	2613.4	2613.4
22.5°	2481.3	2484.3	2487.5	2490.5	2487.5
25°	2349.3	2352.3	2352.3	2358.4	2358.4
27.5°	2195.7	2198.8	2204.9	2204.9	2204.9
30°	2011.4	2014.5	2017.5	2017.5	2017.5
32.5°	1793.4	1793.4	1799.5	1802.7	1799.5
35°	1544.7	1550.8	1557.0	1563.1	1560.0
37.5°	1308.3	1314.3	1317.4	1317.4	1320.4
40°	1090.2	1096.3	1096.3	1102.5	1099.3
42.5°	918.2	915.1	915.1	921.2	918.2
45°	770.8	767.7	767.7	767.7	767.7
47.5°	663.3	660.2	660.2	660.2	660.2
50°	577.3	574.3	574.3	574.3	574.3
52.5°	506.7	503.7	503.7	503.7	500.6
55°	442.2	442.2	439.1	442.2	439.1
57.5°	383.9	383.9	383.9	383.9	383.9
60°	343.9	340.9	340.9	340.9	340.9
62.5°	307.0	307.0	307.0	307.0	307.0
65°	273.3	273.3	273.3	273.3	273.3
67.5°	239.5	236.4	239.5	239.5	236.4
70°	205.7	202.7	205.7	205.7	205.7
72.5°	172.0	172.0	172.0	175.1	172.0
75°	141.2	144.4	144.4	144.4	141.2
77.5°	113.6	116.7	113.6	113.6	113.6
80°	89.1	86.0	86.0	86.0	89.1
82.5°	61.4	61.4	61.4	61.4	61.4
85°	36.9	36.9	36.9	36.9	36.9
87.5°	15.3	15.3	15.3	15.3	15.3
90°	0.0	0.0	0.0	0.0	0.0



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— 0°-180° - - 45°-225° - - - - 90°-270°







(END OF REPORT)