

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: P583294

Luminaire Tested: **HC607D010-HM60525827-61WWW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P583294
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-16)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC607D010-HM60525827-61WWW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 813.2 lumens
Efficiency: N/A
Efficacy: 101.6 lumens/watt
Spacing Criteria (0/90/45): 1.1 / 1.06 / 1.14
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

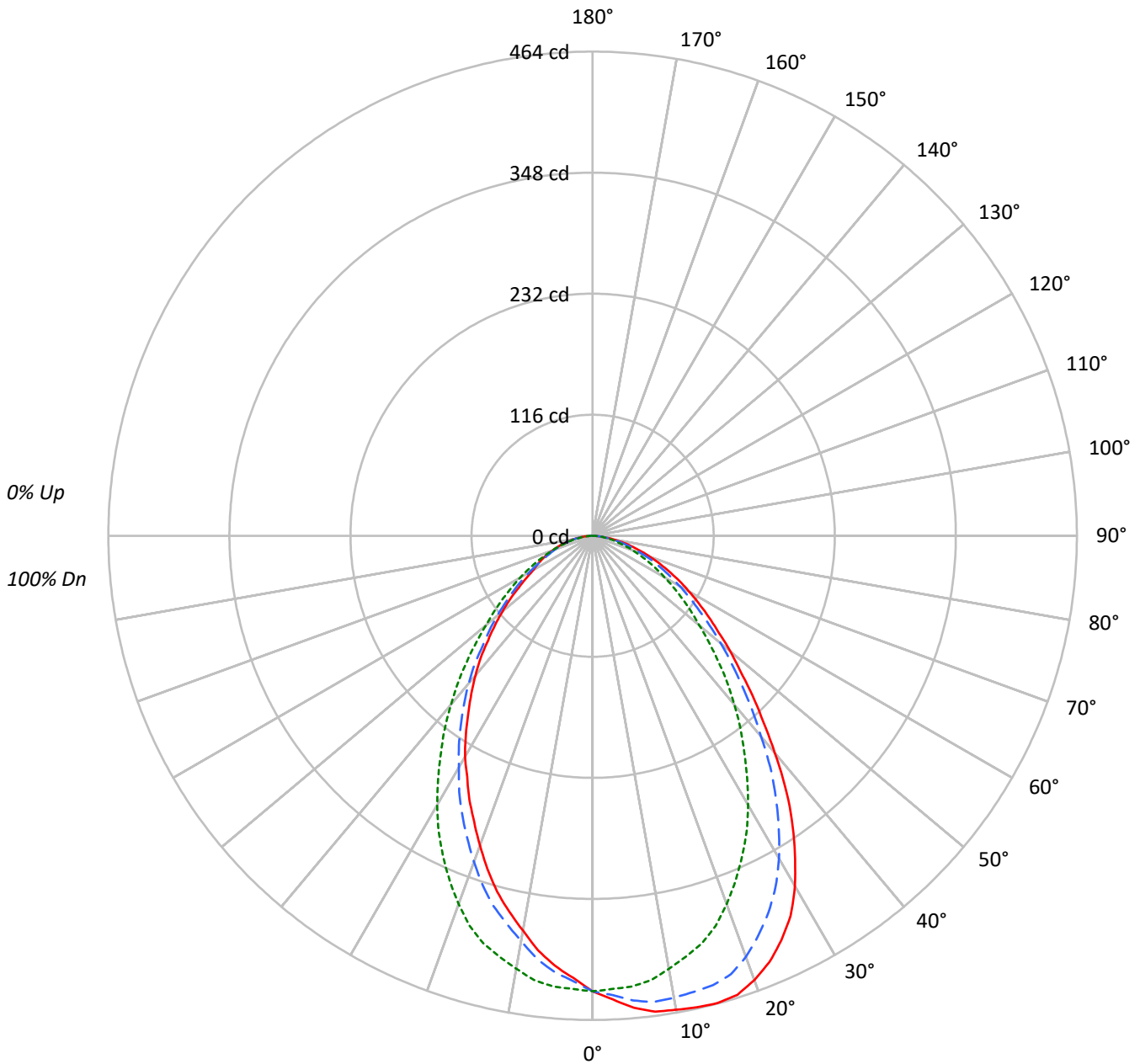
Input Watts (W): 8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									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	110	106	103	99	108	104	101	98	100	97	95	96	94	92	93	91	89	87																			
2	102	95	89	84	99	93	88	83	90	85	81	86	83	79	83	80	78	76																			
3	94	85	78	72	92	83	77	71	80	75	70	78	73	69	75	71	68	66																			
4	87	76	69	63	85	75	68	62	73	67	62	71	65	61	69	64	60	58																			
5	81	69	61	55	79	68	61	55	66	60	55	64	59	54	63	58	53	51																			
6	75	63	55	49	73	62	55	49	61	54	49	59	53	48	57	52	48	46																			
7	70	58	50	44	69	57	50	44	56	49	44	54	48	44	53	48	43	42																			
8	66	53	46	40	64	53	45	40	51	45	40	50	44	40	49	44	39	38																			
9	62	49	42	37	60	49	42	37	48	41	36	47	41	36	46	40	36	34																			
10	58	46	39	34	57	45	38	34	44	38	33	44	38	33	43	37	33	32																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	23929	23929	23929
5°	24989	23861	22766
10°	25673	23446	21387
15°	26305	22946	20046
20°	26427	21906	18406
25°	25870	20505	16882
30°	24548	18857	15471
35°	22292	16945	13887
40°	19429	15100	12488
45°	16800	13211	10978
50°	14678	11377	9620
55°	12970	9997	8248
60°	11666	8760	7160
65°	10429	7627	6940
70°	9312	6508	6508
75°	8091	5465	6100
80°	6472	4641	5588
85°	4403	4088	4780



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	41.0	5.0
10°-20°	114.0	14.0
20°-30°	158.9	19.5
30°-40°	163.8	20.1
40°-50°	135.7	16.7
50°-60°	97.5	12.0
60°-70°	62.1	7.6
70°-80°	31.9	3.9
80°-90°	8.1	1.0
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°	314.0	38.6
0°-40°	477.8	58.8
0°-60°	711.0	87.4
0°-90°	813.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	813.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	436	436	436	436	436	
5°	454	447	434	420	414	44
15°	464	446	404	367	353	131
25°	428	398	339	296	279	196
35°	333	306	253	220	208	207
45°	217	202	170	149	142	168
55°	136	124	105	93	86	122
65°	80	72	59	51	54	81
75°	38	33	26	27	29	41
85°	7	6	6	7	8	9
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	436.5	436.5	436.5	436.5	436.5	436.5	436.5	436.5	436.5
2.5°	444.8	443.0	440.6	438.2	434.7	430.7	427.1	426.0	424.2
5°	454.1	451.8	447.1	441.2	433.6	426.0	419.5	415.4	413.7
7.5°	460.0	457.1	450.6	440.6	429.5	418.3	408.9	403.0	400.7
10°	461.2	458.3	449.5	436.0	421.2	406.0	394.3	387.1	384.2
12.5°	462.9	458.9	447.6	431.8	413.0	395.4	380.7	372.0	369.0
15°	463.5	458.9	445.9	426.6	404.3	383.1	367.2	356.7	353.2
17.5°	461.2	455.9	440.6	417.2	391.9	369.6	350.8	339.6	334.9
20°	453.0	447.1	429.5	403.0	375.5	351.9	332.5	320.8	315.5
22.5°	442.4	434.7	414.8	386.6	357.8	333.1	313.7	301.9	296.7
25°	427.7	420.7	398.4	368.3	339.0	313.2	295.5	283.1	279.1
27.5°	410.7	402.4	379.6	349.5	319.6	293.8	276.7	265.6	260.3
30°	387.8	380.1	357.2	327.2	297.9	273.8	256.2	246.8	244.4
32.5°	360.7	354.3	332.0	303.8	275.5	253.2	238.5	228.5	226.1
35°	333.1	325.5	306.1	279.6	253.2	233.3	219.7	211.0	207.5
37.5°	303.2	296.2	279.6	256.2	232.7	213.9	202.1	194.4	190.9
40°	271.5	266.1	250.8	232.0	211.0	194.4	184.5	178.0	174.5
42.5°	242.0	236.8	226.1	208.6	190.9	176.3	167.5	161.6	158.6
45°	216.7	212.1	201.6	186.3	170.4	158.1	148.6	144.6	141.6
47.5°	191.6	189.2	179.8	165.6	151.0	140.4	133.9	129.3	126.9
50°	172.1	169.2	160.4	145.7	133.4	125.2	119.3	115.1	112.8
52.5°	152.2	149.2	141.1	128.7	118.6	111.0	105.1	101.6	99.3
55°	135.7	133.4	124.5	113.4	104.6	98.1	92.8	88.7	86.3
57.5°	120.4	118.1	109.9	99.3	91.7	85.8	81.1	77.6	74.7
60°	106.4	104.6	96.3	86.3	79.9	74.0	69.9	67.0	65.3
62.5°	94.0	90.5	83.4	74.7	68.8	64.0	59.9	58.1	59.4
65°	80.4	78.7	71.7	64.0	58.8	54.0	51.1	52.3	53.5
67.5°	69.3	67.0	61.1	54.0	49.4	45.8	44.1	46.5	47.0
70°	58.1	55.9	50.5	44.6	40.6	38.2	38.2	40.0	40.6
72.5°	47.6	45.8	41.1	36.5	33.5	31.7	32.9	34.1	34.7
75°	38.2	36.5	32.9	28.8	25.8	25.8	27.1	28.2	28.8
77.5°	29.3	28.2	24.7	21.8	20.5	20.5	21.8	22.3	22.9
80°	20.5	19.4	17.7	15.9	14.7	15.9	17.0	17.0	17.7
82.5°	13.5	12.9	11.8	10.5	10.5	11.2	11.8	12.3	12.3
85°	7.0	7.0	6.5	5.9	6.5	7.0	7.0	7.6	7.6
87.5°	2.4	2.4	2.4	2.4	2.9	2.9	2.9	2.9	2.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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







(END OF REPORT)