

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: P582935

Luminaire Tested: **HC605D010-HM60525927-61WWWB**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582935
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-18)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC605D010-HM60525927-61WWWB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, BLACK BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 537.2 lumens
Efficiency: N/A
Efficacy: 89.5 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.09 / 1.17
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

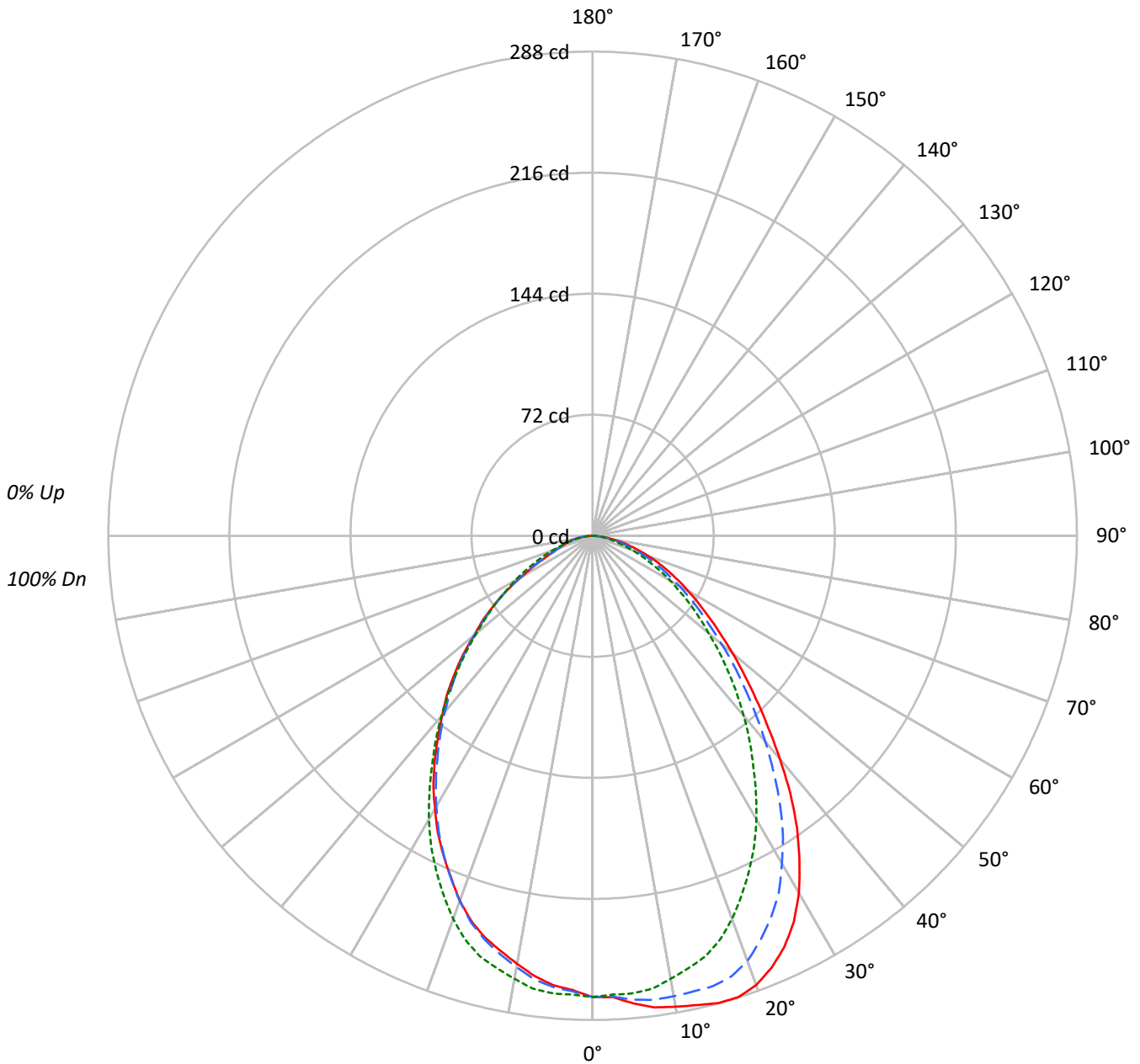
Input Watts (W): 6
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	103	100	108	104	101	98	100	97	95	96	94	92	93	91	89	87				87				
2	102	95	89	84	100	93	88	83	90	85	81	87	83	80	84	81	78	76				76				
3	94	85	78	72	92	84	77	72	81	75	71	78	73	69	76	72	68	66				66				
4	87	77	69	63	85	75	68	63	73	67	62	71	65	61	69	64	60	58				58				
5	81	70	61	56	79	68	61	55	66	60	55	65	59	54	63	58	54	52				52				
6	75	63	55	49	74	62	55	49	61	54	49	59	53	48	58	52	48	46				46				
7	70	58	50	44	69	57	50	44	56	49	44	54	48	44	53	48	43	42				42				
8	66	53	46	40	64	53	45	40	51	45	40	50	44	40	49	44	39	38				38				
9	62	49	42	37	60	49	42	37	48	41	36	47	41	36	46	40	36	34				34				
10	58	46	38	34	57	45	38	34	44	38	33	43	37	33	43	37	33	31				31				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	15037	15037	15037
5°	15364	15034	14764
10°	15831	14896	14390
15°	16334	14699	14041
20°	16591	14147	13470
25°	16319	13307	12690
30°	15534	12331	11863
35°	14174	11129	10955
40°	12387	10004	9947
45°	10660	8807	9009
50°	9270	7667	7829
55°	8086	6729	6805
60°	7181	5833	5339
65°	6421	4916	4086
70°	5658	4023	3430
75°	4829	3177	3262
80°	3883	2715	3220
85°	2579	2327	2830



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	26.0	4.8
10°-20°	73.9	13.8
20°-30°	105.5	19.6
30°-40°	110.6	20.6
40°-50°	93.1	17.3
50°-60°	66.2	12.3
60°-70°	38.8	7.2
70°-80°	18.3	3.4
80°-90°	4.7	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°	205.5	38.2
0°-40°	316.0	58.8
0°-60°	475.3	88.5
0°-90°	537.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	537.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	274	274	274	274	274	
5°	279	277	273	269	268	27
15°	288	277	259	248	247	81
25°	270	251	220	210	210	124
35°	212	194	166	161	164	132
45°	138	128	114	114	116	107
55°	85	78	70	70	71	76
65°	50	44	38	32	32	49
75°	23	19	15	15	15	25
85°	4	3	4	4	4	5
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°	274.3	274.3	274.3	274.3	274.3	274.3	274.3	274.3	274.3
2.5°	274.7	274.7	274.3	273.9	273.2	272.1	271.3	270.5	270.5
5°	279.2	278.4	277.0	275.0	273.2	271.0	269.4	268.3	268.3
7.5°	283.0	281.4	278.4	275.0	271.7	268.7	266.1	264.5	264.2
10°	284.4	282.5	278.1	272.8	267.6	263.4	260.5	258.5	258.5
12.5°	285.9	283.6	277.6	270.2	263.4	257.9	254.8	253.3	252.9
15°	287.8	284.8	277.3	267.9	259.0	252.6	248.5	247.4	247.4
17.5°	287.8	284.1	274.7	263.1	251.9	244.6	240.9	239.8	240.2
20°	284.4	280.4	269.1	254.8	242.5	234.9	231.2	230.4	230.9
22.5°	278.1	273.2	260.5	245.1	231.5	223.7	220.3	220.3	220.0
25°	269.8	264.5	250.7	234.6	220.0	212.1	209.5	209.8	209.8
27.5°	259.0	253.7	239.8	222.6	208.0	200.1	198.2	199.0	199.3
30°	245.4	239.8	225.2	208.4	194.8	187.0	185.9	187.0	187.4
32.5°	228.9	224.9	210.6	193.3	180.6	173.9	173.5	174.6	176.2
35°	211.8	207.2	194.1	178.4	166.3	160.8	160.8	162.6	163.7
37.5°	193.0	188.5	176.5	163.4	153.2	148.0	148.8	150.6	151.0
40°	173.1	169.7	159.7	148.4	139.8	135.6	136.7	138.7	139.0
42.5°	154.4	151.4	143.2	133.0	126.7	123.6	125.2	127.5	128.1
45°	137.5	134.1	127.5	118.8	113.6	112.1	113.9	115.4	116.2
47.5°	122.2	119.2	113.6	105.7	101.9	101.1	103.1	103.8	104.5
50°	108.7	105.7	100.0	92.9	89.9	89.9	91.4	92.2	91.8
52.5°	95.6	92.9	87.7	81.7	79.8	79.8	80.9	81.4	82.0
55°	84.6	82.0	77.5	72.0	70.4	69.7	70.4	70.4	71.2
57.5°	74.6	72.3	68.3	62.9	61.1	60.3	60.0	59.6	60.3
60°	65.5	63.7	59.2	54.7	53.2	51.3	49.8	48.4	48.7
62.5°	57.3	55.5	51.3	46.9	45.3	42.7	40.8	39.0	39.8
65°	49.5	47.6	43.8	40.1	37.9	34.8	31.9	30.7	31.5
67.5°	42.4	40.8	37.1	33.3	31.5	28.1	25.1	25.1	25.5
70°	35.3	33.7	30.7	27.3	25.1	22.1	21.0	21.4	21.4
72.5°	28.8	27.7	24.7	21.7	19.4	17.6	17.6	18.0	18.3
75°	22.8	22.1	19.1	16.5	15.0	13.9	14.6	15.0	15.4
77.5°	17.6	16.5	14.2	12.3	11.2	11.6	12.3	12.8	13.1
80°	12.3	12.0	10.2	9.0	8.6	9.0	9.7	10.2	10.2
82.5°	7.9	7.5	6.3	6.0	6.0	6.3	7.1	7.1	7.1
85°	4.1	3.7	3.4	3.4	3.7	4.1	4.5	4.5	4.5
87.5°	1.5	1.1	1.5	1.5	1.9	1.9	1.9	1.9	1.9
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)