

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: P581918

Luminaire Tested: **HC620D010-HM60525927-61RWWC**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P581918
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-14)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC620D010-HM60525927-61RWWC
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1684.3 lumens
Efficiency: N/A
Efficacy: 84.2 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.15 / 1.2
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

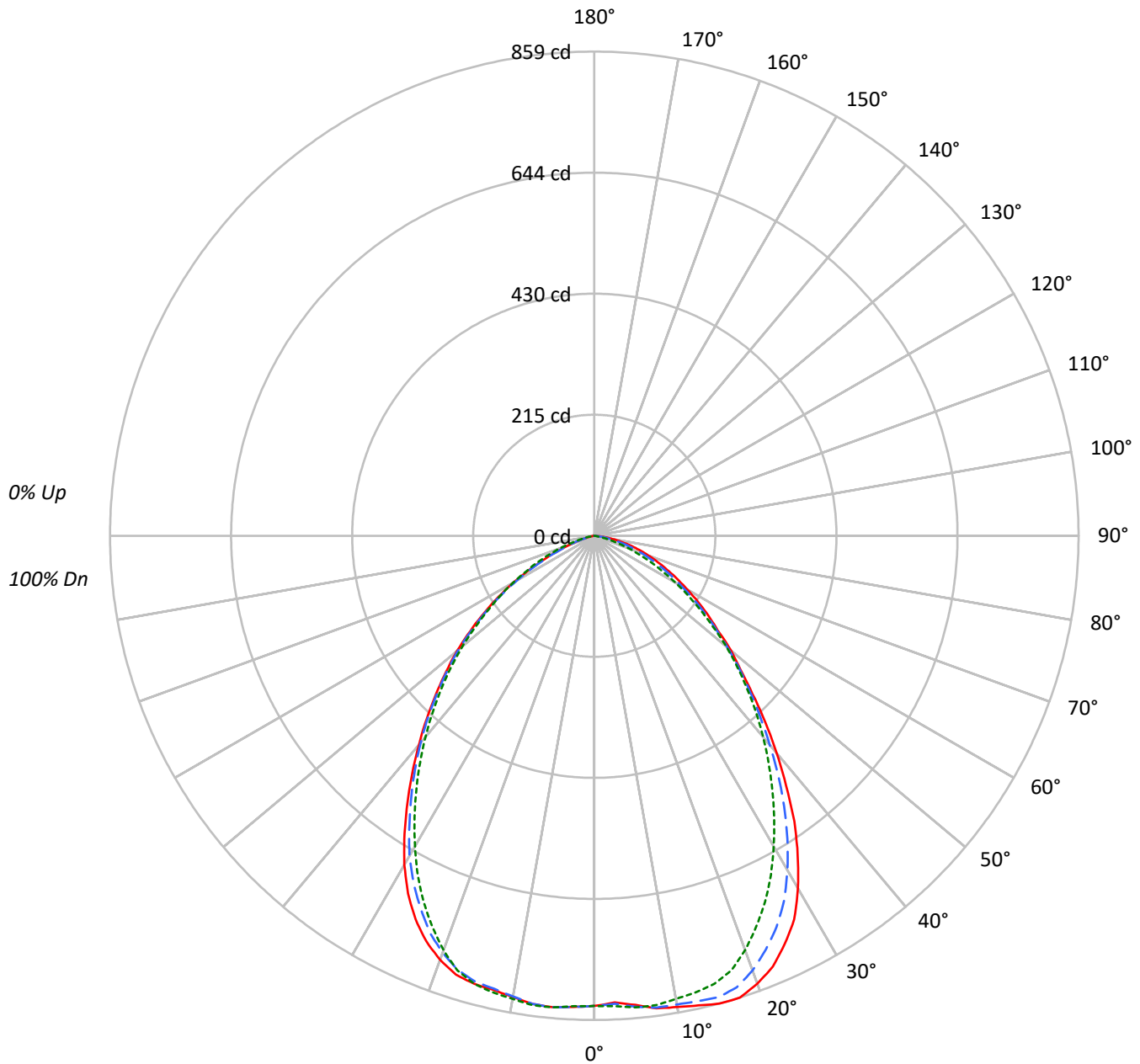
Input Watts (W): 20
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	94	92	90	88		
2	103	96	90	86	100	94	89	85	91	86	83	88	84	81	85	82	79	77		
3	95	86	79	74	93	85	78	73	82	76	72	79	75	71	77	73	69	68		
4	88	78	70	64	86	76	69	64	74	68	63	72	67	62	70	65	61	60		
5	82	70	62	57	80	69	62	56	67	61	56	65	60	55	64	59	55	53		
6	76	64	56	50	74	63	56	50	62	55	50	60	54	49	58	53	49	47		
7	71	59	51	45	69	58	50	45	56	50	45	55	49	45	54	48	44	42		
8	66	54	46	41	65	53	46	41	52	45	41	51	45	40	50	44	40	38		
9	62	50	42	37	61	49	42	37	48	42	37	47	41	37	46	41	37	35		
10	59	46	39	34	57	46	39	34	45	38	34	44	38	34	43	38	34	32		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	45736	45736	45736
5°	45977	46219	46219
10°	47260	46442	46253
15°	48763	46709	46709
20°	49331	45638	46694
25°	48342	43351	45402
30°	45729	40285	42652
35°	41385	36841	38661
40°	36003	33334	34622
45°	30763	29709	30763
50°	27001	26029	27095
55°	23550	21925	22795
60°	20821	18222	17970
65°	18471	14372	12310
70°	16301	10146	7421
75°	13895	5740	3601
80°	10323	1799	1073
85°	5724	692	692



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.0	4.8
10°-20°	234.1	13.9
20°-30°	342.0	20.3
30°-40°	358.7	21.3
40°-50°	302.1	17.9
50°-60°	211.7	12.6
60°-70°	113.5	6.7
70°-80°	38.1	2.3
80°-90°	4.1	0.2
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°	656.1	39.0
0°-40°	1014.8	60.2
0°-60°	1528.6	90.8
0°-90°	1684.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1684.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	834	834	834	834	834	
5°	836	839	840	840	840	80
15°	859	848	823	818	823	242
25°	799	765	717	729	751	366
35°	618	587	550	566	578	384
45°	397	390	383	393	397	309
55°	246	238	229	234	238	222
65°	142	130	111	92	95	142
75°	66	51	27	17	17	70
85°	9	4	1	1	1	12
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°	834.3	834.3	834.3	834.3	834.3	834.3	834.3	834.3	834.3
2.5°	828.7	828.7	830.9	833.2	835.5	835.5	836.6	837.7	836.6
5°	835.5	835.5	838.8	839.9	839.9	838.8	839.9	839.9	839.9
7.5°	845.6	843.3	844.4	842.2	839.9	838.8	837.7	837.7	837.7
10°	849.0	846.7	844.4	839.9	834.3	830.9	829.8	830.9	830.9
12.5°	853.5	851.2	845.6	836.6	829.8	824.1	823.0	825.3	825.3
15°	859.2	856.9	847.8	833.2	823.0	817.3	818.5	820.7	823.0
17.5°	859.2	854.6	839.9	820.7	808.3	802.6	807.1	812.8	816.2
20°	845.6	841.0	820.7	797.0	782.3	778.9	786.9	797.0	800.4
22.5°	827.5	818.5	794.7	766.5	750.6	750.6	761.9	774.4	778.9
25°	799.2	792.4	765.3	732.6	716.7	715.6	729.2	746.1	750.6
27.5°	767.6	758.5	729.2	695.2	678.3	679.5	694.1	711.1	715.6
30°	722.4	711.1	685.1	652.3	636.4	640.9	655.7	668.1	673.8
32.5°	671.5	661.3	637.5	607.1	593.5	598.0	610.5	621.8	626.3
35°	618.4	607.1	586.7	559.6	550.5	555.1	566.4	575.5	577.7
37.5°	558.5	550.5	535.8	514.4	507.6	513.2	522.3	528.0	530.2
40°	503.1	496.3	483.8	468.0	465.8	470.3	479.4	482.8	483.8
42.5°	448.8	443.1	435.2	424.0	424.0	428.5	436.3	438.6	439.7
45°	396.8	393.4	390.0	381.0	383.2	388.8	393.4	396.8	396.8
47.5°	351.6	352.7	348.2	341.4	343.6	349.3	352.7	356.1	356.1
50°	316.6	313.2	308.6	301.8	305.2	309.8	314.3	316.6	317.7
52.5°	275.9	274.8	271.4	263.4	265.7	268.0	272.5	275.9	277.0
55°	246.4	243.0	238.5	229.4	229.4	231.7	234.0	236.2	238.5
57.5°	218.2	214.8	208.0	197.8	196.7	196.7	195.6	197.8	201.2
60°	189.9	188.8	178.6	169.6	166.2	162.8	158.3	159.4	163.9
62.5°	165.1	162.8	153.7	142.4	135.6	130.0	124.4	123.3	127.7
65°	142.4	140.2	130.0	118.7	110.8	100.6	91.5	91.5	94.9
67.5°	122.1	117.6	108.5	96.1	85.9	73.5	64.5	66.7	67.9
70°	101.7	98.3	88.1	75.8	63.3	50.9	45.2	46.3	46.3
72.5°	83.6	79.1	69.0	56.5	44.1	32.7	30.5	29.3	29.3
75°	65.6	61.1	50.9	38.4	27.1	19.3	17.0	17.0	17.0
77.5°	47.5	44.1	35.0	23.8	14.7	9.1	7.9	6.8	6.8
80°	32.7	29.3	21.5	12.5	5.7	3.4	3.4	3.4	3.4
82.5°	19.3	15.9	10.2	5.7	2.3	1.1	1.1	1.1	1.1
85°	9.1	6.8	4.5	2.3	1.1	1.1	1.1	1.1	1.1
87.5°	1.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0
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)