

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: P581883

Luminaire Tested: **HC620D010-HM60525835-61RWWH**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P581883
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-15)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC620D010-HM60525835-61RWWH
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2186.8 lumens
Efficiency: N/A
Efficacy: 109.3 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.19
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

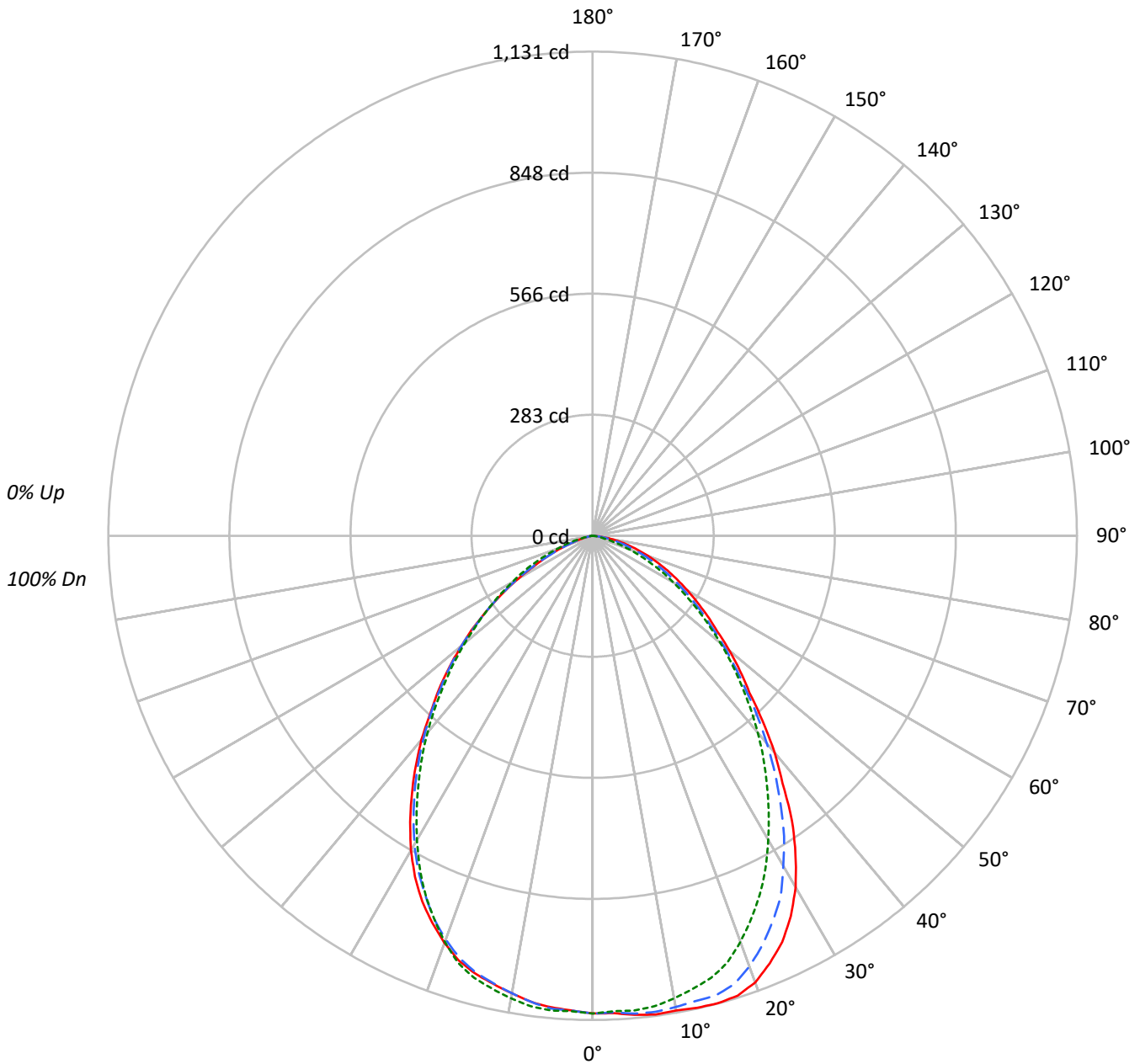
Input Watts (W): 20
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
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	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88																			
2	103	96	90	85	100	94	89	84	91	86	83	87	84	81	85	82	79	77																			
3	95	86	79	74	93	84	78	73	82	76	72	79	74	70	77	73	69	67																			
4	88	78	70	64	86	76	69	64	74	68	63	72	66	62	70	65	61	59																			
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	61	55	50	60	54	49	58	53	49	47																			
7	71	59	51	45	69	58	50	45	56	50	45	55	49	44	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°	61179	61179	61179
5°	61815	61253	60846
10°	62691	61065	60414
15°	64166	60681	60097
20°	64761	58875	59044
25°	63342	55915	56979
30°	59997	51938	53698
35°	54328	47475	49235
40°	47310	42916	44483
45°	40144	37988	39353
50°	35547	33184	34054
55°	31320	28386	28243
60°	28057	23891	21972
65°	25048	19159	15734
70°	22023	13832	9841
75°	18597	8366	5571
80°	14301	3694	2336
85°	8240	943	943



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.9	4.8
10°-20°	304.5	13.9
20°-30°	440.1	20.1
30°-40°	463.1	21.2
40°-50°	389.3	17.8
50°-60°	273.2	12.5
60°-70°	150.3	6.9
70°-80°	53.4	2.4
80°-90°	7.0	0.3
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°	850.5	38.9
0°-40°	1313.6	60.1
0°-60°	1976.1	90.4
0°-90°	2186.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2186.8	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1116	1116	1116	1116	1116	
5°	1123	1120	1113	1109	1106	107
15°	1131	1112	1069	1056	1059	319
25°	1047	994	924	926	942	479
35°	812	765	709	724	736	503
45°	518	503	490	502	508	406
55°	328	310	297	297	296	295
65°	193	173	148	121	121	192
75°	88	70	40	26	26	94
85°	13	7	2	2	2	18
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°	1116.0	1116.0	1116.0	1116.0	1116.0	1116.0	1116.0	1116.0	1116.0
2.5°	1116.0	1116.0	1114.5	1114.5	1111.6	1111.6	1110.1	1110.1	1110.1
5°	1123.3	1123.3	1120.4	1116.0	1113.1	1108.6	1108.6	1107.2	1105.7
7.5°	1127.7	1126.2	1121.8	1116.0	1108.6	1101.4	1098.4	1099.9	1098.4
10°	1126.2	1123.3	1117.5	1105.7	1097.0	1086.8	1085.3	1083.8	1085.3
12.5°	1129.1	1124.7	1113.1	1098.4	1083.8	1072.2	1070.7	1070.7	1072.2
15°	1130.6	1126.2	1111.6	1089.6	1069.2	1057.4	1056.0	1057.4	1058.9
17.5°	1126.2	1120.4	1098.4	1069.2	1045.8	1034.1	1034.1	1037.0	1039.9
20°	1110.1	1101.4	1070.7	1035.6	1009.2	1000.4	1003.4	1009.2	1012.1
22.5°	1080.9	1070.7	1035.6	996.0	968.3	960.9	968.3	975.5	978.5
25°	1047.2	1035.6	994.5	953.6	924.4	915.6	925.9	937.6	942.0
27.5°	1001.9	988.8	950.7	903.9	874.7	870.3	881.9	895.1	898.0
30°	947.8	933.1	890.8	846.8	820.5	819.0	832.2	844.0	848.3
32.5°	881.9	868.8	832.2	788.3	765.0	765.0	778.1	788.3	792.8
35°	811.8	797.2	765.0	728.4	709.4	710.8	724.0	731.4	735.7
37.5°	728.4	724.0	699.2	668.5	655.2	658.2	668.5	674.2	678.7
40°	661.1	649.4	633.3	608.4	599.7	602.6	612.8	618.7	621.6
42.5°	588.0	580.7	567.5	550.0	544.1	548.5	557.2	561.6	560.2
45°	517.8	516.3	503.2	492.9	490.0	495.8	501.7	506.1	507.6
47.5°	466.6	460.7	449.0	441.8	438.8	444.6	450.5	453.4	453.4
50°	416.8	411.1	399.3	392.0	389.1	395.0	399.3	402.2	399.3
52.5°	367.1	361.3	351.0	342.3	340.8	343.8	345.2	346.6	349.5
55°	327.7	321.8	310.1	299.8	297.0	298.3	297.0	297.0	295.5
57.5°	289.6	283.7	272.0	260.4	255.9	254.5	250.1	248.7	247.2
60°	255.9	248.7	236.9	223.8	217.9	212.1	204.7	200.4	200.4
62.5°	223.8	216.5	203.3	191.6	182.9	172.6	160.9	155.0	155.0
65°	193.1	187.2	172.6	159.4	147.7	134.6	121.3	118.5	121.3
67.5°	163.8	157.9	143.3	130.2	115.6	99.5	87.8	87.8	90.6
70°	137.4	131.7	118.5	102.4	86.3	70.2	61.4	61.4	61.4
72.5°	112.6	106.7	92.1	77.5	61.4	45.3	40.9	42.4	40.9
75°	87.8	83.4	70.2	54.2	39.5	27.8	26.3	24.8	26.3
77.5°	65.8	61.4	49.7	35.1	22.0	16.1	14.6	14.6	14.6
80°	45.3	40.9	32.2	20.5	11.7	7.4	7.4	7.4	7.4
82.5°	27.8	23.5	17.6	10.2	4.4	4.4	4.4	4.4	4.4
85°	13.1	10.2	7.4	2.9	1.5	1.5	1.5	1.5	1.5
87.5°	2.9	2.9	1.5	1.5	0.0	1.5	1.5	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)