

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: P581937

Luminaire Tested: **HC620D010-HM60525930-61RWWH**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P581937
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-HM60525930-61RWWH
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1844.8 lumens
Efficiency: N/A
Efficacy: 92.2 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

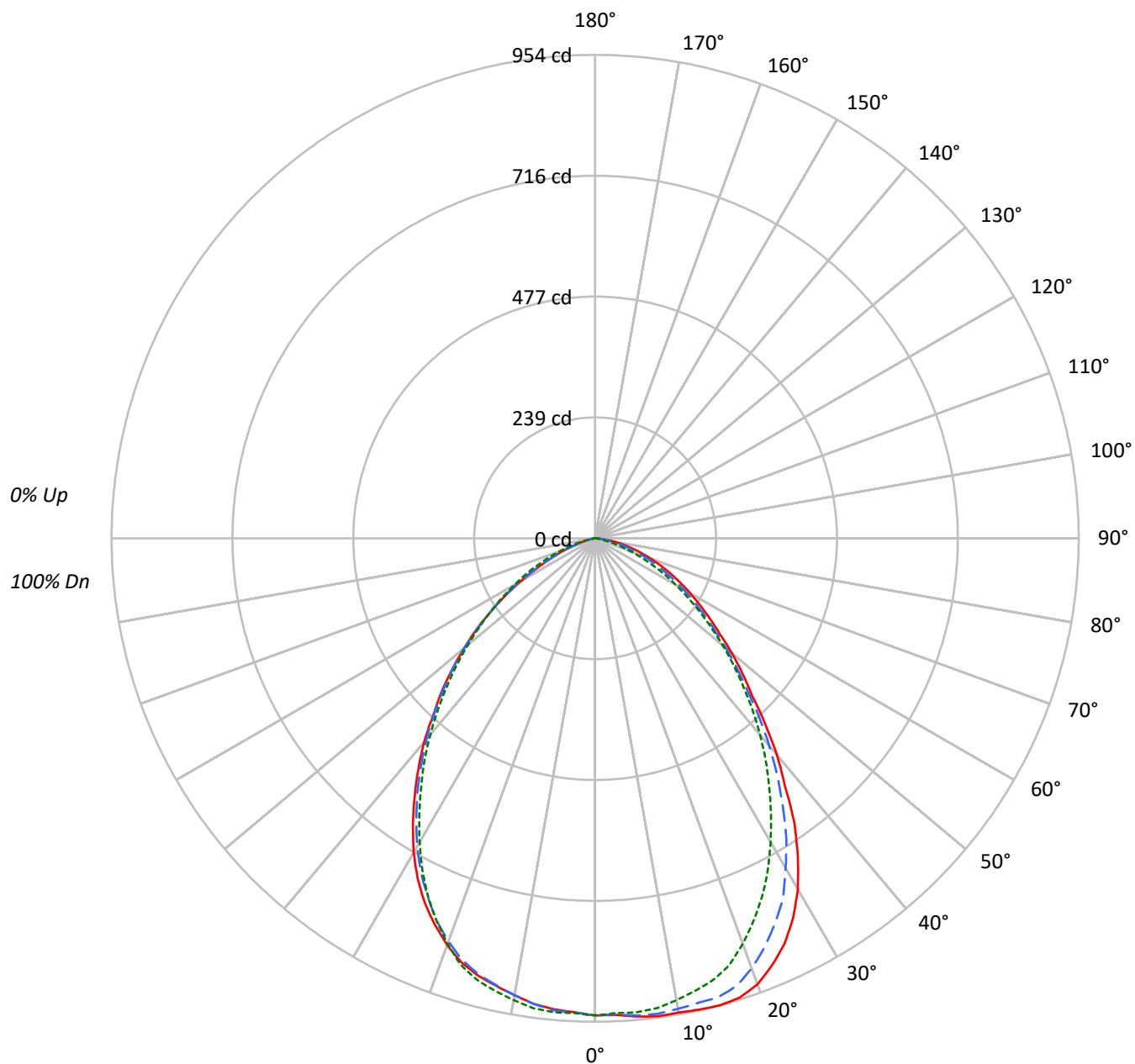
Input Watts (W): 20
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					10
RW	70	50	30	10	70	50	30	10		50	30	10			50	30	10			50
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111			106	106	106			102
1	111	107	104	101	108	105	102	99		101	98	96			97	95	93			93
2	103	96	90	85	100	94	89	84		91	86	83			87	84	81			85
3	95	86	79	74	93	84	78	73		82	76	72			79	74	70			77
4	88	78	70	64	86	76	69	64		74	68	63			72	66	62			70
5	82	70	62	57	80	69	62	56		67	61	56			65	60	55			64
6	76	64	56	50	74	63	56	50		61	55	50			60	54	49			58
7	71	59	51	45	69	58	50	45		56	50	45			55	49	44			54
8	66	54	46	41	65	53	46	41		52	45	41			51	45	40			50
9	62	50	42	37	61	49	42	37		48	42	37			47	41	37			46
10	59	46	39	34	57	46	39	34		45	38	34			44	38	34			43

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	51613	51613	51613
5°	52146	51673	51337
10°	52888	51513	50968
15°	54138	51198	50704
20°	54634	49669	49815
25°	53441	47168	48069
30°	50622	43823	45304
35°	45836	40053	41539
40°	39918	36204	37535
45°	33872	32050	33197
50°	29995	27991	28724
55°	26427	23942	23827
60°	23671	20163	18529
65°	21131	16163	13283
70°	18593	11685	8303
75°	15674	7053	4702
80°	12091	3125	1926
85°	6982	755	755



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.4	4.8
10°-20°	256.9	13.9
20°-30°	371.3	20.1
30°-40°	390.7	21.2
40°-50°	328.4	17.8
50°-60°	230.5	12.5
60°-70°	126.8	6.9
70°-80°	45.0	2.4
80°-90°	5.9	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°	717.5	38.9
0°-40°	1108.2	60.1
0°-60°	1667.2	90.4
0°-90°	1844.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1844.8	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	942	942	942	942	942	
5°	948	945	939	935	933	91
15°	954	938	902	891	893	269
25°	884	839	780	781	795	404
35°	685	645	598	611	621	424
45°	437	424	413	423	428	343
55°	276	262	250	250	249	249
65°	163	146	125	102	102	162
75°	74	59	33	22	22	80
85°	11	6	1	1	1	15
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°	941.5	941.5	941.5	941.5	941.5	941.5	941.5	941.5	941.5
2.5°	941.5	941.5	940.3	940.3	937.8	937.8	936.5	936.5	936.5
5°	947.6	947.6	945.3	941.5	939.0	935.4	935.4	934.2	932.9
7.5°	951.4	950.1	946.5	941.5	935.4	929.2	926.7	927.9	926.7
10°	950.1	947.6	942.8	932.9	925.4	916.8	915.6	914.3	915.6
12.5°	952.6	948.9	939.0	926.7	914.3	904.5	903.2	903.2	904.5
15°	953.9	950.1	937.8	919.3	902.1	892.1	890.9	892.1	893.4
17.5°	950.1	945.3	926.7	902.1	882.3	872.4	872.4	874.9	877.4
20°	936.5	929.2	903.2	873.7	851.4	844.1	846.5	851.4	853.9
22.5°	912.0	903.2	873.7	840.3	816.9	810.8	816.9	823.0	825.5
25°	883.5	873.7	839.1	804.5	779.8	772.5	781.1	790.9	794.7
27.5°	845.3	834.1	802.1	762.6	737.9	734.2	744.0	755.1	757.6
30°	799.7	787.3	751.5	714.5	692.3	691.0	702.1	712.0	715.7
32.5°	744.0	732.9	702.1	665.1	645.4	645.4	656.5	665.1	668.8
35°	684.9	672.5	645.4	614.5	598.5	599.7	610.8	617.0	620.7
37.5°	614.5	610.8	589.8	563.9	552.8	555.3	563.9	568.9	572.6
40°	557.8	547.9	534.3	513.4	505.9	508.4	517.0	522.0	524.5
42.5°	496.0	489.9	478.8	464.0	459.1	462.7	470.2	473.8	472.6
45°	436.9	435.6	424.5	415.8	413.4	418.3	423.3	426.9	428.2
47.5°	393.6	388.7	378.9	372.6	370.2	375.1	380.1	382.5	382.5
50°	351.7	346.7	336.8	330.7	328.2	333.2	336.8	339.3	336.8
52.5°	309.8	304.8	296.2	288.8	287.6	289.9	291.2	292.4	294.9
55°	276.5	271.5	261.6	253.0	250.5	251.8	250.5	250.5	249.3
57.5°	244.3	239.4	229.5	219.7	215.9	214.7	211.0	209.8	208.6
60°	215.9	209.8	199.9	188.8	183.9	178.9	172.8	169.0	169.0
62.5°	188.8	182.6	171.5	161.7	154.2	145.6	135.7	130.7	130.7
65°	162.9	157.9	145.6	134.5	124.6	113.5	102.4	99.9	102.4
67.5°	138.2	133.2	120.9	109.8	97.4	84.0	74.0	74.0	76.5
70°	116.0	111.0	99.9	86.3	72.9	59.3	51.8	51.8	51.8
72.5°	95.1	90.1	77.7	65.4	51.8	38.3	34.6	35.8	34.6
75°	74.0	70.4	59.3	45.7	33.3	23.5	22.2	21.0	22.2
77.5°	55.5	51.8	41.9	29.6	18.5	13.6	12.3	12.3	12.3
80°	38.3	34.6	27.2	17.2	9.9	6.1	6.1	6.1	6.1
82.5°	23.5	19.7	14.8	8.6	3.7	3.7	3.7	3.7	3.7
85°	11.1	8.6	6.1	2.5	1.2	1.2	1.2	1.2	1.2
87.5°	2.5	2.5	1.2	1.2	0.0	1.2	1.2	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)