

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

Report Number: P20228

Luminaire Tested: **ML709840T120DEM – 493WBS06 – H750TEM912**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P20228
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P20228)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: ML709840T120DEM – 493WBS06 – H750TEM912
Description: HALO 6" RECESSED LED DOWNLIGHT WITH WHITE BAFFLED DESIGN
LOWER TRIM REFLECTOR, SPECULAR UPPER TRIM REFLECTOR AND
SOLITE GLASS LENS WITH MODULE
Light Source: HIGH OUTPUT LED
Ballast/Driver: IOTA BATTERY PACK

Summary

Lumens per Lamp: 542 (1 lamp)
Luminaire Lumens: 542.1 lumens
Efficiency: 100.0%
Efficacy: 58.3 lumens/watt
Spacing Criteria (0/90/45): 0.79 / 0.79 / 0.97
Luminous Opening: Vertical Cylinder (Dia: 0.5' x H: 0.1')
CIE Type: Direct

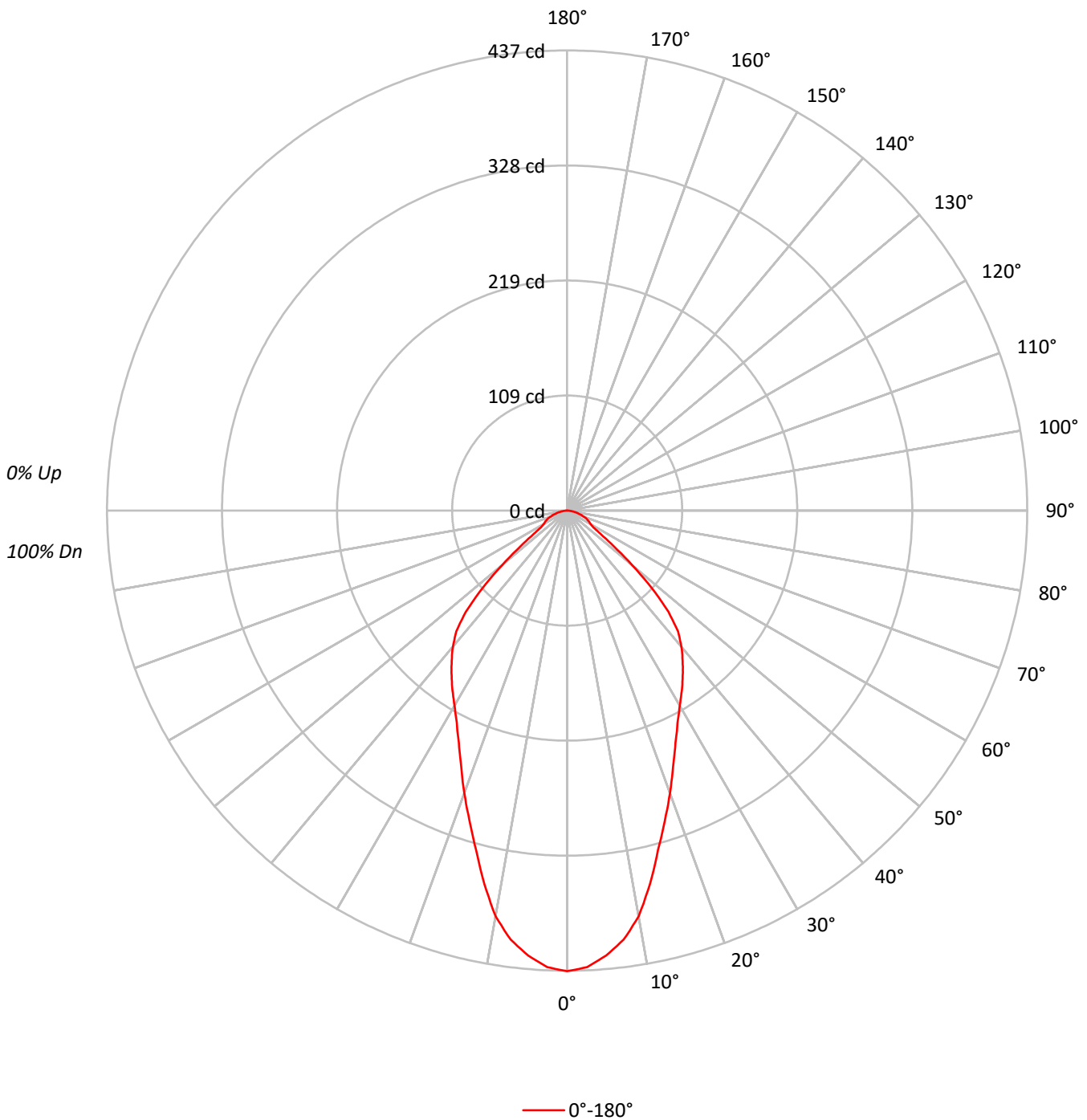
Input Watts (W): 9.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	112	108	105	102	109	106	103	100	102	99	97		98	96	94		94	93	91	90
2	104	98	93	88	102	96	91	87	93	89	85		90	86	83		87	84	82	80
3	97	89	82	77	95	87	81	77	85	80	75		82	78	74		80	76	73	71
4	91	81	74	69	89	80	73	68	77	72	67		75	70	66		73	69	66	64
5	85	74	67	61	83	73	66	61	71	65	61		69	64	60		68	63	59	58
6	79	68	61	55	78	67	60	55	66	59	55		64	59	54		63	58	54	52
7	74	63	56	50	73	62	55	50	61	55	50		59	54	50		58	53	49	48
8	70	58	51	46	69	58	51	46	57	50	46		55	50	46		54	49	45	44
9	66	54	47	42	65	54	47	42	53	47	42		52	46	42		51	46	42	40
10	62	51	44	39	61	50	44	39	49	43	39		48	43	39		48	42	39	37

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	23978
5°	22835
10°	20841
15°	17729
20°	15238
25°	13155
30°	11799
35°	10871
40°	9959
45°	8404
50°	5280
55°	2698
60°	1971
65°	1821
70°	1584
75°	1216
80°	814
85°	466



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	39.5	7.3	7.3
10°-20°	93.7	17.3	17.3
20°-30°	112.8	20.8	20.8
30°-40°	119.7	22.1	22.1
40°-50°	100.9	18.6	18.6
50°-60°	39.1	7.2	7.2
60°-70°	21.4	3.9	3.9
70°-80°	12.1	2.2	2.2
80°-90°	3.0	0.5	0.5
90°-100°	0.0	0.0	0.0
100°-110°	0.0	0.0	0.0
110°-120°	0.0	0.0	0.0
120°-130°	0.0	0.0	0.0
130°-140°	0.0	0.0	0.0
140°-150°	0.0	0.0	0.0
150°-160°	0.0	0.0	0.0
160°-170°	0.0	0.0	0.0
170°-180°	0.0	0.0	0.0
0°-30°	245.9	45.4	45.4
0°-40°	365.6	67.4	67.5
0°-60°	505.6	93.3	93.3
0°-90°	542.1	100.0	100.0
90°-120°	0.0	0.0	0.0
90°-150°	0.0	0.0	0.0
90°-180°	0.0	0.0	0.0
0°-180°	542.1	100.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	437	
5°	424	39
15°	334	94
25°	243	113
35°	191	120
45°	136	101
55°	38	39
65°	22	21
75°	11	12
85°	3	3
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	437.4
2.5°	434.0
5°	424.2
7.5°	410.9
10°	391.2
12.5°	363.1
15°	333.7
17.5°	308.5
20°	285.4
22.5°	262.9
25°	243.3
27.5°	227.1
30°	213.8
32.5°	202.6
35°	191.4
37.5°	180.1
40°	168.9
42.5°	155.7
45°	136.0
47.5°	109.3
50°	80.7
52.5°	55.4
55°	38.5
57.5°	29.4
60°	25.9
62.5°	23.8
65°	21.7
67.5°	19.6
70°	16.8
72.5°	14.1
75°	11.2
77.5°	9.1
80°	6.3
82.5°	4.2
85°	2.9
87.5°	0.7
90°	0.0

(END OF REPORT)