

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: P20229

Luminaire Tested: **ML709835T120DEM – 493SCS06 – H750TEM912**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P20229  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P20229)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO  
Catalog Number: ML709835T120DEM – 493SCS06 – H750TEM912  
Description: HALO 6" RECESSED LED DOWNLIGHT WITH SPECULAR CLEAR 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: 532 (1 lamp)  
Luminaire Lumens: 532.0 lumens  
Efficiency: 100.0%  
Efficacy: 57.2 lumens/watt  
Spacing Criteria (0/90/45): 0.95 / 0.95 / 1.04  
Luminous Opening: Vertical Cylinder (Dia: 0.5' x H: 0.1')  
CIE Type: Direct

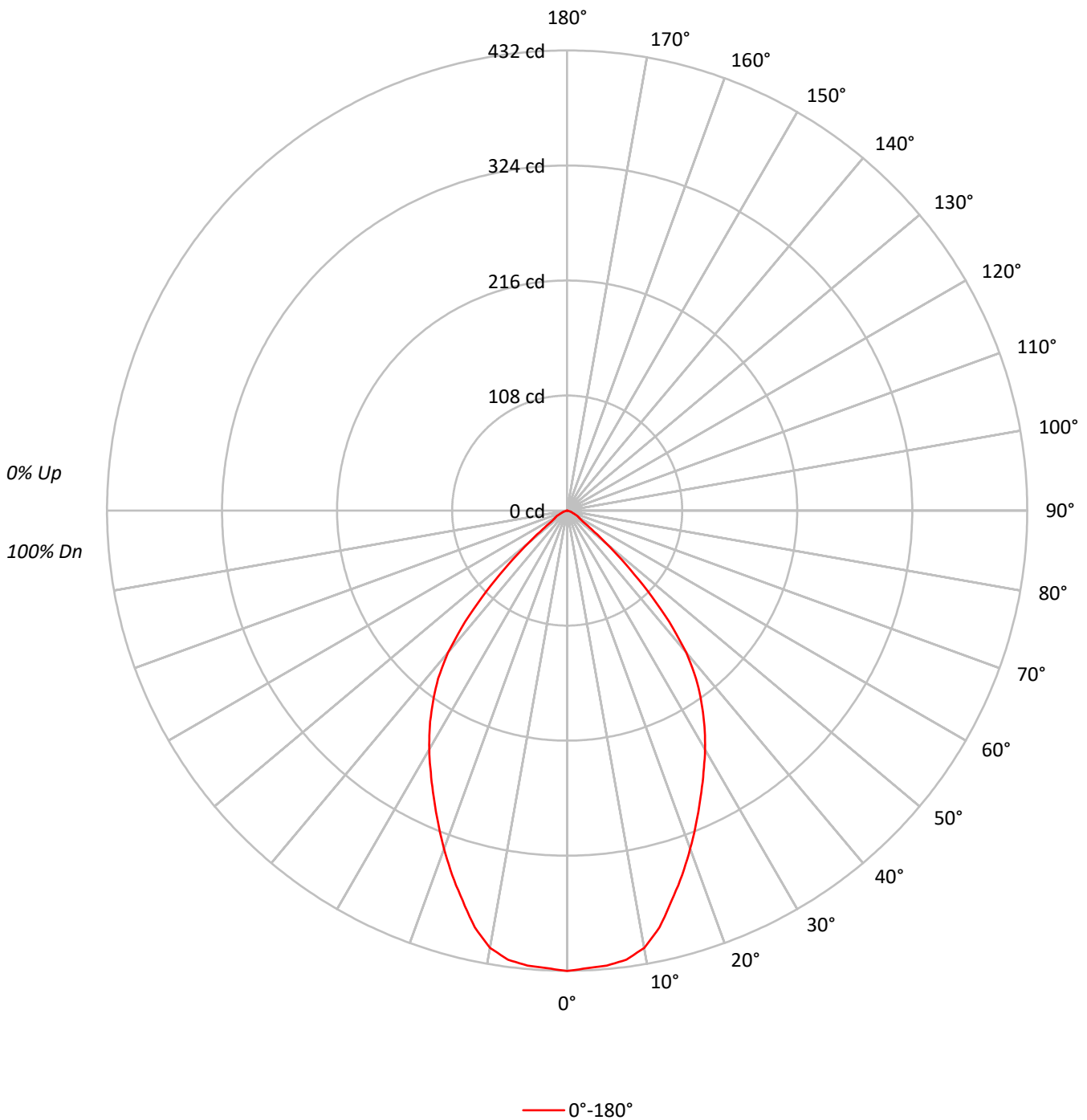
Input Watts (W): 9.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	113	110	107	104	110	107	105	103	103	101	99	100	98	96	96	95	94	92
2	106	101	96	92	104	99	95	91	95	92	89	92	90	87	90	87	85	84
3	100	92	87	82	98	91	86	81	88	84	80	86	82	79	83	80	78	76
4	94	85	79	74	92	84	78	73	82	76	72	79	75	72	78	74	71	69
5	88	78	72	67	86	77	71	67	76	70	66	74	69	65	72	68	65	63
6	83	73	66	61	81	72	65	61	70	64	60	69	64	60	67	63	59	58
7	78	67	61	56	76	67	60	56	65	59	55	64	59	55	63	58	55	53
8	73	63	56	51	72	62	56	51	61	55	51	60	55	51	59	54	50	49
9	69	59	52	47	68	58	52	47	57	51	47	56	51	47	55	50	47	45
10	66	55	48	44	65	54	48	44	53	48	44	53	47	44	52	47	43	42

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	23693
5°	23077
10°	22205
15°	20141
20°	18035
25°	16036
30°	14293
35°	12489
40°	10248
45°	6599
50°	3101
55°	1269
60°	959
65°	646
70°	396
75°	76
80°	0
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	40.6	7.6	7.6
10°-20°	106.3	20.0	20.0
20°-30°	136.5	25.7	25.7
30°-40°	136.4	25.6	25.6
40°-50°	82.5	15.5	15.5
50°-60°	20.1	3.8	3.8
60°-70°	7.9	1.5	1.5
70°-80°	1.6	0.3	0.3
80°-90°	0.0	0.0	0.0
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°	283.4	53.3	53.3
0°-40°	419.8	78.9	78.9
0°-60°	522.4	98.2	98.2
0°-90°	532.0	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°	532.0	100.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	432	
5°	429	41
15°	379	106
25°	297	137
35°	220	136
45°	107	82
55°	18	20
65°	8	8
75°	1	2
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	432.2
2.5°	430.0
5°	428.7
7.5°	425.2
10°	416.8
12.5°	400.7
15°	379.1
17.5°	358.8
20°	337.8
22.5°	317.0
25°	296.6
27.5°	277.2
30°	259.0
32.5°	240.1
35°	219.9
37.5°	198.9
40°	173.8
42.5°	141.8
45°	106.8
47.5°	74.0
50°	47.4
52.5°	28.6
55°	18.1
57.5°	14.0
60°	12.6
62.5°	10.5
65°	7.7
67.5°	5.6
70°	4.2
72.5°	2.8
75°	0.7
77.5°	0.7
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)