

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: P30056

Luminaire Tested: **ML706830-492PS06**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P30056
Test Lab: METALUX RESEARCH LABS
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: ML706830-492PS06
Description: HALO RECESSED LED RETROFIT MODULE WITH WHITE TRIM RING &
LENSED SHOWER TRIM
Light Source: HIGH OUPUT LED PACKAGE
LED 14 WATTS
Ballast/Driver: 120V ELECTRONIC DRIVER

Summary

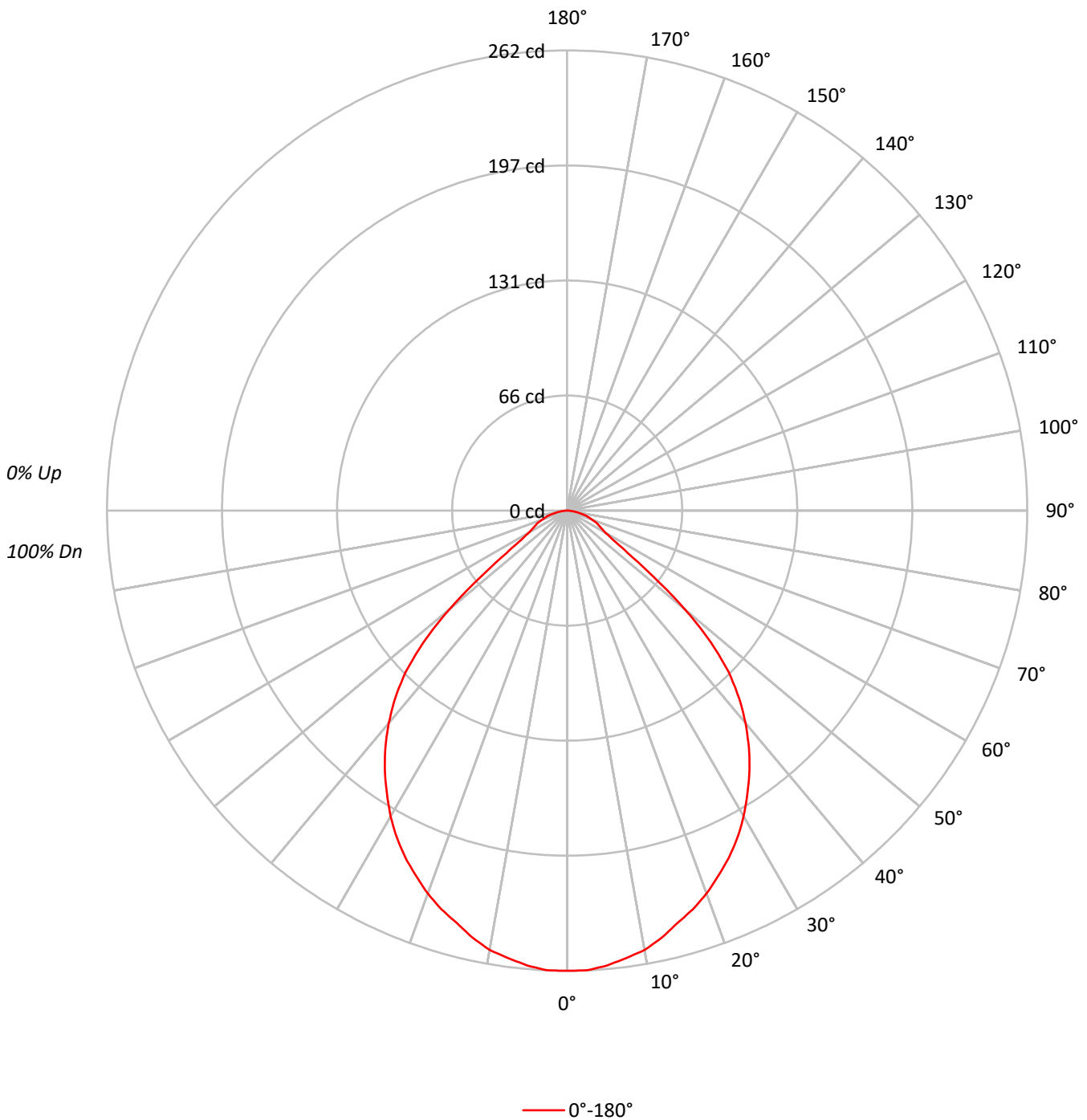
Lumens per Lamp: 479 (1 lamp)
Luminaire Lumens: 480.2 lumens
Efficiency: 100.2%
Efficacy: 34.3 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.15 / 1.23
Luminous Opening: Circular (Dia: 0.4' x H: 0')
CIE Type: Direct

Input Watts (W): 14
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	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	117	117	117	117	111	111	111		107	107	107		102	102	102	100
1	112	108	105	102	109	106	103	100	101	99	97		98	96	94		94	93	91	89
2	104	97	92	87	101	95	90	86	92	88	84		89	85	82		86	83	80	79
3	96	88	81	76	94	86	80	75	83	78	74		81	76	73		78	75	71	69
4	89	79	72	66	87	78	71	66	76	70	65		74	68	64		72	67	64	62
5	83	72	65	59	81	71	64	59	69	63	58		67	62	57		66	61	57	55
6	78	66	58	53	76	65	58	52	63	57	52		62	56	52		60	55	51	49
7	72	61	53	47	71	60	52	47	58	52	47		57	51	47		56	50	46	45
8	68	56	48	43	66	55	48	43	54	47	43		53	47	42		52	46	42	40
9	64	52	44	39	62	51	44	39	50	43	39		49	43	39		48	43	39	37
10	60	48	41	36	59	47	40	36	46	40	36		46	40	36		45	39	35	34

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	22917
5°	22829
10°	22560
15°	22005
20°	21595
25°	21040
30°	20301
35°	19327
40°	18041
45°	16081
50°	11975
55°	6405
60°	4373
65°	4139
70°	3836
75°	3718
80°	3022
85°	2007



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	24.6	5.1	5.1
10°-20°	68.6	14.3	14.3
20°-30°	100.2	20.9	20.9
30°-40°	112.8	23.5	23.5
40°-50°	97.8	20.4	20.4
50°-60°	42.4	8.8	8.9
60°-70°	19.8	4.1	4.1
70°-80°	11.2	2.3	2.3
80°-90°	2.7	0.6	0.6
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°	193.5	40.3	40.4
0°-40°	306.2	63.8	63.9
0°-60°	446.5	93.0	93.2
0°-90°	480.2	100.0	100.2
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°	480.2	100.0	100.2

CANDELA DISTRIBUTION:

	0°	Flux
0°	262	
5°	260	25
15°	243	69
25°	218	100
35°	181	113
45°	130	98
55°	42	42
65°	20	20
75°	11	11
85°	2	3
90°	0	0
95°	0	0
105°	0	0
115°	0	0
125°	0	0
135°	0	0
145°	0	0
155°	0	0
165°	0	0
175°	0	0
180°	0	0



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CANDELA DISTRIBUTION (FULL):

	0°
0°	262
2.5°	262
5°	260
7.5°	257
10°	254
12.5°	249
15°	243
17.5°	238
20°	232
22.5°	225
25°	218
27.5°	210
30°	201
32.5°	191
35°	181
37.5°	170
40°	158
42.5°	145
45°	130
47.5°	111
50°	88
52.5°	62
55°	42
57.5°	31
60°	25
62.5°	22
65°	20
67.5°	18
70°	15
72.5°	13
75°	11
77.5°	8
80°	6
82.5°	4
85°	2
87.5°	1
90°	0
92.5°	0
95°	0
97.5°	0
100°	0
102.5°	0
105°	0
107.5°	0
110°	0



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CANDELA DISTRIBUTION (continued):

	0°
112.5°	0
115°	0
117.5°	0
120°	0
122.5°	0
125°	0
127.5°	0
130°	0
132.5°	0
135°	0
137.5°	0
140°	0
142.5°	0
145°	0
147.5°	0
150°	0
152.5°	0
155°	0
157.5°	0
160°	0
162.5°	0
165°	0
167.5°	0
170°	0
172.5°	0
175°	0
177.5°	0
180°	0

(END OF REPORT)