

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: P30055

Luminaire Tested: **ML706835-492PS06**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P30055
Test Lab: METALUX RESEARCH LABS
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: ML706835-492PS06
Description: HALO RECESSED LED RETROFIT MODULE WITH WHITE TRIM RING &
LENSED SHOWER TRIM
Light Source: HIGH OUPUT LED PACKAGE
14 WATTS
Ballast/Driver: 120V ELECTRONIC DRIVER

Summary

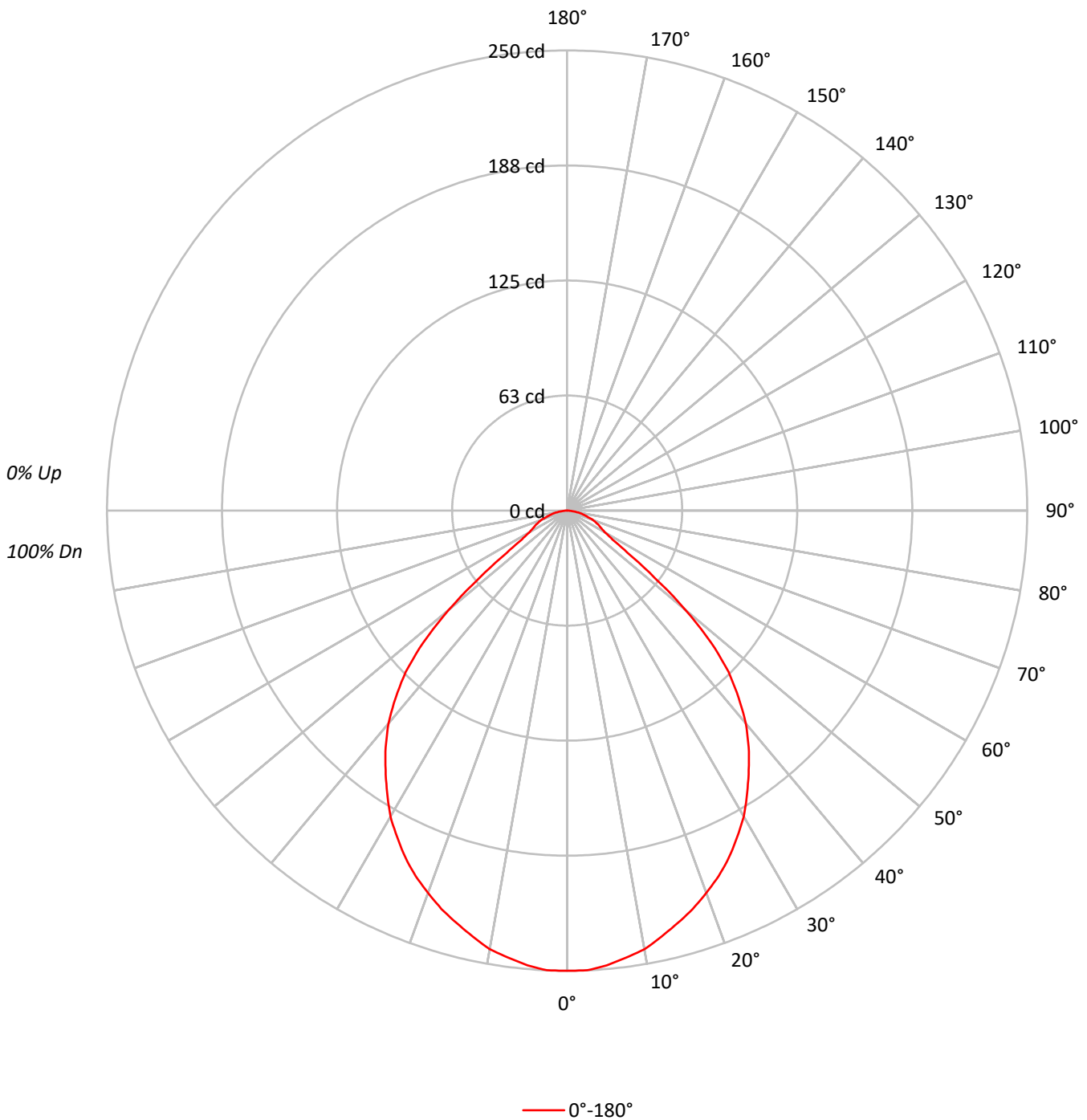
Lumens per Lamp: 456 (1 lamp)
Luminaire Lumens: 458.1 lumens
Efficiency: 100.5%
Efficacy: 33.2 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.15 / 1.23
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 13.8
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	120	120	120	120	117	117	117	117	112	112	112		107	107	107		103	103	103	100
1	112	108	105	102	109	106	103	100	102	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	81	79
3	96	88	81	76	94	86	80	75	83	78	74		81	76	73		78	75	71	70
4	90	80	72	67	88	78	71	66	76	70	65		74	69	64		72	67	64	62
5	83	72	65	59	81	71	64	59	69	63	58		67	62	58		66	61	57	55
6	78	66	58	53	76	65	58	53	64	57	52		62	56	52		60	55	51	50
7	73	61	53	48	71	60	53	47	58	52	47		57	51	47		56	51	46	45
8	68	56	48	43	67	55	48	43	54	47	43		53	47	42		52	46	42	41
9	64	52	44	39	62	51	44	39	50	44	39		49	43	39		48	43	39	37
10	60	48	41	36	59	47	41	36	47	40	36		46	40	36		45	39	35	34

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	13705
5°	13647
10°	13471
15°	13167
20°	12893
25°	12581
30°	12154
35°	11511
40°	10806
45°	9613
50°	7164
55°	3823
60°	2631
65°	2465
70°	2404
75°	2118
80°	1894
85°	1258



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	23.5	5.1	5.1
10°-20°	65.4	14.3	14.3
20°-30°	95.6	20.9	21.0
30°-40°	107.5	23.5	23.6
40°-50°	93.3	20.4	20.5
50°-60°	40.5	8.8	8.9
60°-70°	18.9	4.1	4.2
70°-80°	10.7	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°	184.5	40.3	40.5
0°-40°	292.0	63.7	64.0
0°-60°	425.8	92.9	93.4
0°-90°	458.1	100.0	100.5
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°	458.1	100.0	100.5

CANDELA DISTRIBUTION:

	0°	Flux
0°	250	
5°	248	23
15°	232	65
25°	208	96
35°	172	107
45°	124	93
55°	40	41
65°	19	19
75°	10	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°	250
2.5°	250
5°	248
7.5°	245
10°	242
12.5°	237
15°	232
17.5°	227
20°	221
22.5°	215
25°	208
27.5°	200
30°	192
32.5°	182
35°	172
37.5°	162
40°	151
42.5°	138
45°	124
47.5°	106
50°	84
52.5°	60
55°	40
57.5°	29
60°	24
62.5°	21
65°	19
67.5°	17
70°	15
72.5°	12
75°	10
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)