

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: P30080

Luminaire Tested: **ML706827-492PS06**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P30080
Test Lab: METALUX RESEARCH LABS
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: ML706827-492PS06
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: 416 (1 lamp)
Luminaire Lumens: 416.6 lumens
Efficiency: 100.2%
Efficacy: 30.0 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

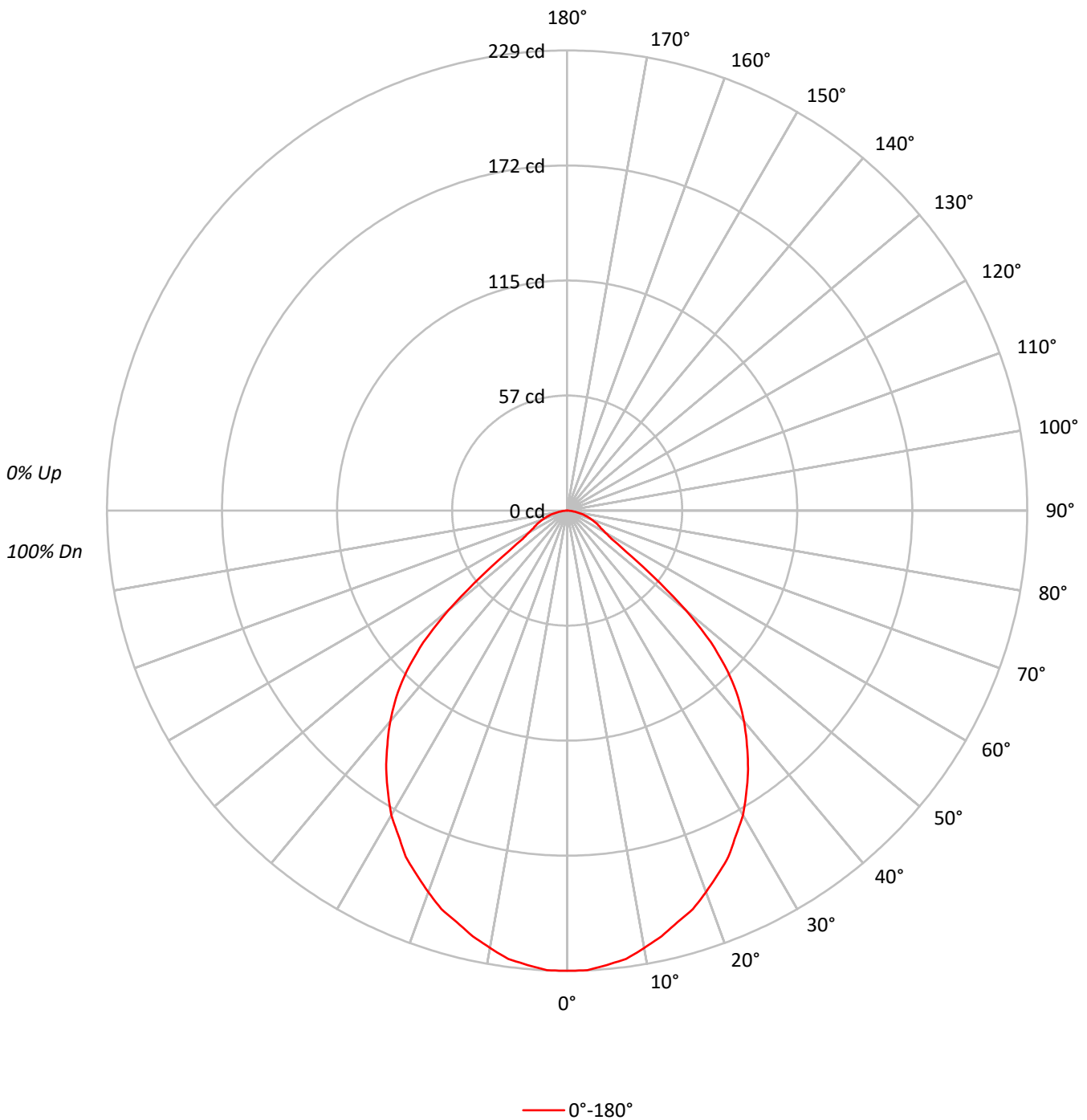
Input Watts (W): 13.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P30080

CATALOG NUMBER: ML706827-492PS06

Luminous Intensity Polar Plot





TEST NUMBER: P30080

CATALOG NUMBER: ML706827-492PS06

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		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	81	79
3	96	88	81	76	94	86	80	75	83	78	74		81	76	73		78	75	71	70
4	89	79	72	67	87	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	63	57	52		62	56	52		60	55	51	50
7	72	61	53	48	71	60	53	47	58	52	47		57	51	47		56	51	46	45
8	68	56	48	43	66	55	48	43	54	47	43		53	47	43		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	36	34

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	20031
5°	19931
10°	19629
15°	19198
20°	18803
25°	18337
30°	17675
35°	16765
40°	15643
45°	13978
50°	10478
55°	5490
60°	3849
65°	3518
70°	3325
75°	3042
80°	2519
85°	2007



TEST NUMBER: P30080

CATALOG NUMBER: ML706827-492PS06

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	21.5	5.2	5.2
10°-20°	59.9	14.4	14.4
20°-30°	87.2	20.9	21.0
30°-40°	97.8	23.5	23.5
40°-50°	85.1	20.4	20.5
50°-60°	36.6	8.8	8.8
60°-70°	16.9	4.1	4.1
70°-80°	9.5	2.3	2.3
80°-90°	2.0	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°	168.5	40.5	40.5
0°-40°	266.4	63.9	64.0
0°-60°	388.2	93.2	93.3
0°-90°	416.6	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°	416.6	100.0	100.2

CANDELA DISTRIBUTION:

	0°	Flux
0°	229	
5°	227	22
15°	212	60
25°	190	87
35°	157	98
45°	113	85
55°	36	37
65°	17	17
75°	9	9
85°	2	2
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



TEST NUMBER: P30080

CATALOG NUMBER: ML706827-492PS06

CANDELA DISTRIBUTION (FULL):

	0°
0°	229
2.5°	229
5°	227
7.5°	225
10°	221
12.5°	217
15°	212
17.5°	208
20°	202
22.5°	196
25°	190
27.5°	182
30°	175
32.5°	166
35°	157
37.5°	147
40°	137
42.5°	126
45°	113
47.5°	97
50°	77
52.5°	54
55°	36
57.5°	26
60°	22
62.5°	19
65°	17
67.5°	15
70°	13
72.5°	11
75°	9
77.5°	7
80°	5
82.5°	3
85°	2
87.5°	0
90°	0
92.5°	0
95°	0
97.5°	0
100°	0
102.5°	0
105°	0
107.5°	0
110°	0



TEST NUMBER: P30080

CATALOG NUMBER: ML706827-492PS06

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)