

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: P30084

Luminaire Tested: **ML706827-493SCS06**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P30084
Test Lab: METALUX RESEARCH LABS
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: ML706827-493SCS06
Description: HALO RECESSED LED RETROFIT MODULE WITH TRIM THAT INCLUDES
SHOWER RATED,SOLITE LENS, SPECULAR DESIGN REFLECTOR IN TRIM
Light Source: HIGH OUPUT LED PACKAGE
LED 14 WATTS
Ballast/Driver: 120V ELECTRONIC DRIVER

Summary

Lumens per Lamp: 591 (1 lamp)
Luminaire Lumens: 592.0 lumens
Efficiency: 100.2%
Efficacy: 42.9 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.86 / 1.01
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

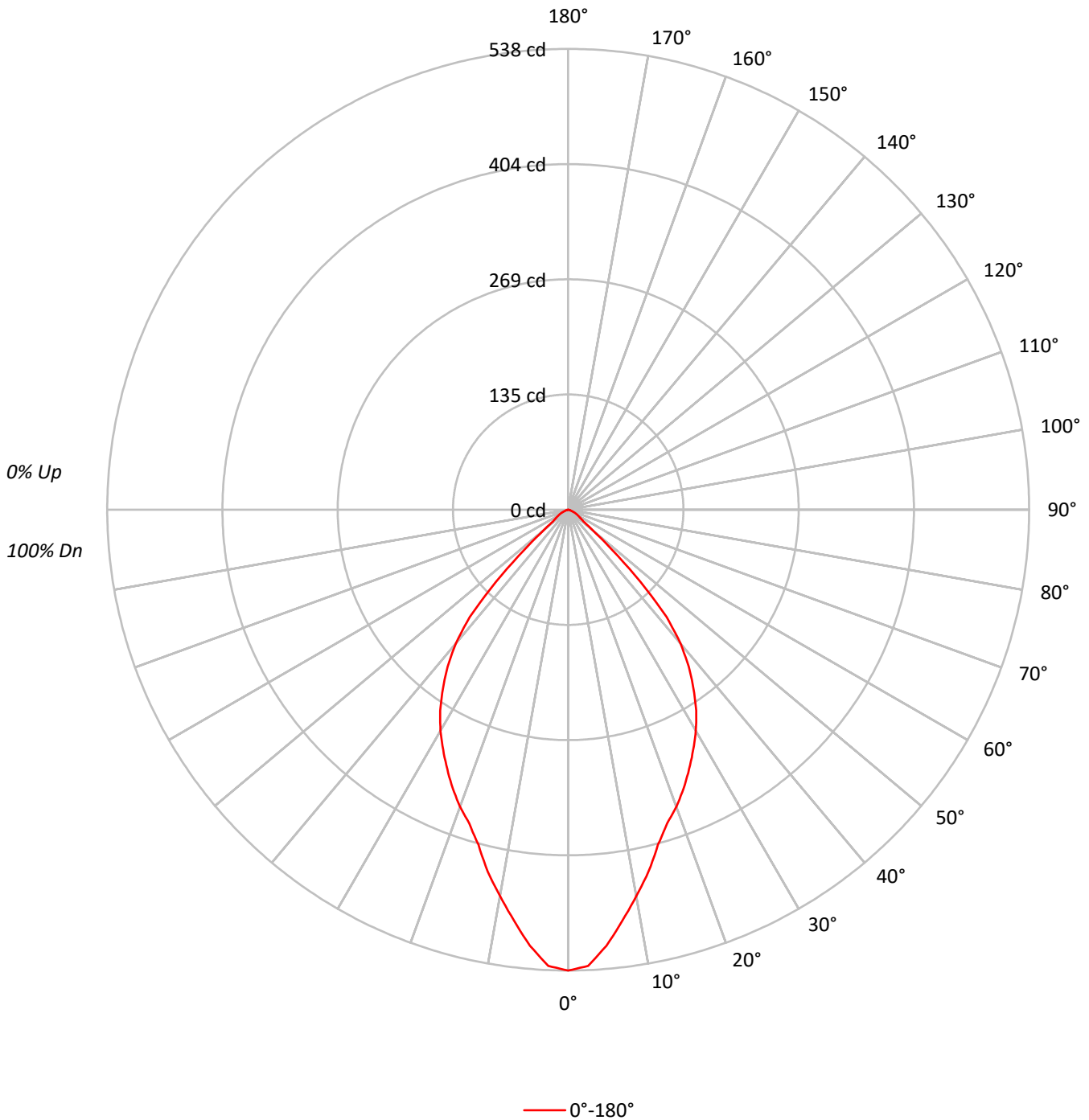
Input Watts (W): 13.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	119	119	119	119	116	116	116	116	111	111	111	107	107	107	102	102	102	100
1	113	110	107	105	110	108	105	103	104	102	100	100	98	97	96	95	94	92
2	106	101	96	92	104	99	95	91	96	92	89	93	90	87	90	88	86	84
3	100	93	87	83	98	91	86	82	89	84	80	86	82	79	84	81	78	76
4	94	85	79	74	92	84	78	74	82	77	73	80	76	72	78	74	71	69
5	88	79	72	67	87	78	72	67	76	71	66	74	69	66	73	68	65	63
6	83	73	66	61	81	72	66	61	71	65	61	69	64	60	68	63	60	58
7	78	68	61	56	77	67	61	56	66	60	56	64	59	55	63	59	55	53
8	74	63	56	52	72	62	56	52	61	55	51	60	55	51	59	54	51	49
9	70	59	52	48	68	58	52	48	57	52	47	56	51	47	55	51	47	46
10	66	55	49	44	65	55	48	44	54	48	44	53	48	44	52	47	44	42

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	58782
5°	56046
10°	50813
15°	45812
20°	42905
25°	40266
30°	37597
35°	34013
40°	29096
45°	18388
50°	6289
55°	3429
60°	2841
65°	2068
70°	1278
75°	422
80°	629
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	47.1	7.9	8.0
10°-20°	114.6	19.4	19.4
20°-30°	153.6	25.9	26.0
30°-40°	158.3	26.7	26.8
40°-50°	90.7	15.3	15.4
50°-60°	17.8	3.0	3.0
60°-70°	8.3	1.4	1.4
70°-80°	1.7	0.3	0.3
80°-90°	0.1	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°	315.2	53.2	53.3
0°-40°	473.4	80.0	80.1
0°-60°	581.9	98.3	98.5
0°-90°	592.0	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°	592.0	100.0	100.2

CANDELA DISTRIBUTION:

	0°	Flux
0°	538	
5°	511	47
15°	405	115
25°	334	154
35°	255	158
45°	119	91
55°	18	18
65°	8	8
75°	1	2
85°	0	0
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	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	538
2.5°	533
5°	511
7.5°	484
10°	458
12.5°	433
15°	405
17.5°	384
20°	369
22.5°	352
25°	334
27.5°	316
30°	298
32.5°	278
35°	255
37.5°	231
40°	204
42.5°	170
45°	119
47.5°	69
50°	37
52.5°	22
55°	18
57.5°	15
60°	13
62.5°	11
65°	8
67.5°	6
70°	4
72.5°	2
75°	1
77.5°	1
80°	1
82.5°	0
85°	0
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



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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)