

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: P20156

Luminaire Tested: **ML712827TUNVD010-492PS06**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P20156
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: ML712827TUNVD010-492PS06
Description: HALO 6" RECESSED LED DOWNLIGHT WITH ALUMINUM SHOWER TRIM AND GLASS LENS WITH MODULE ML712827TUNVD010
Light Source: (1)SURFACE MOUNT LED ON HEAT SINK MODULE
(1)24 WATTS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: 861 (1 lamp)
Luminaire Lumens: 862.4 lumens
Efficiency: 100.2%
Efficacy: 32.7 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.25
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

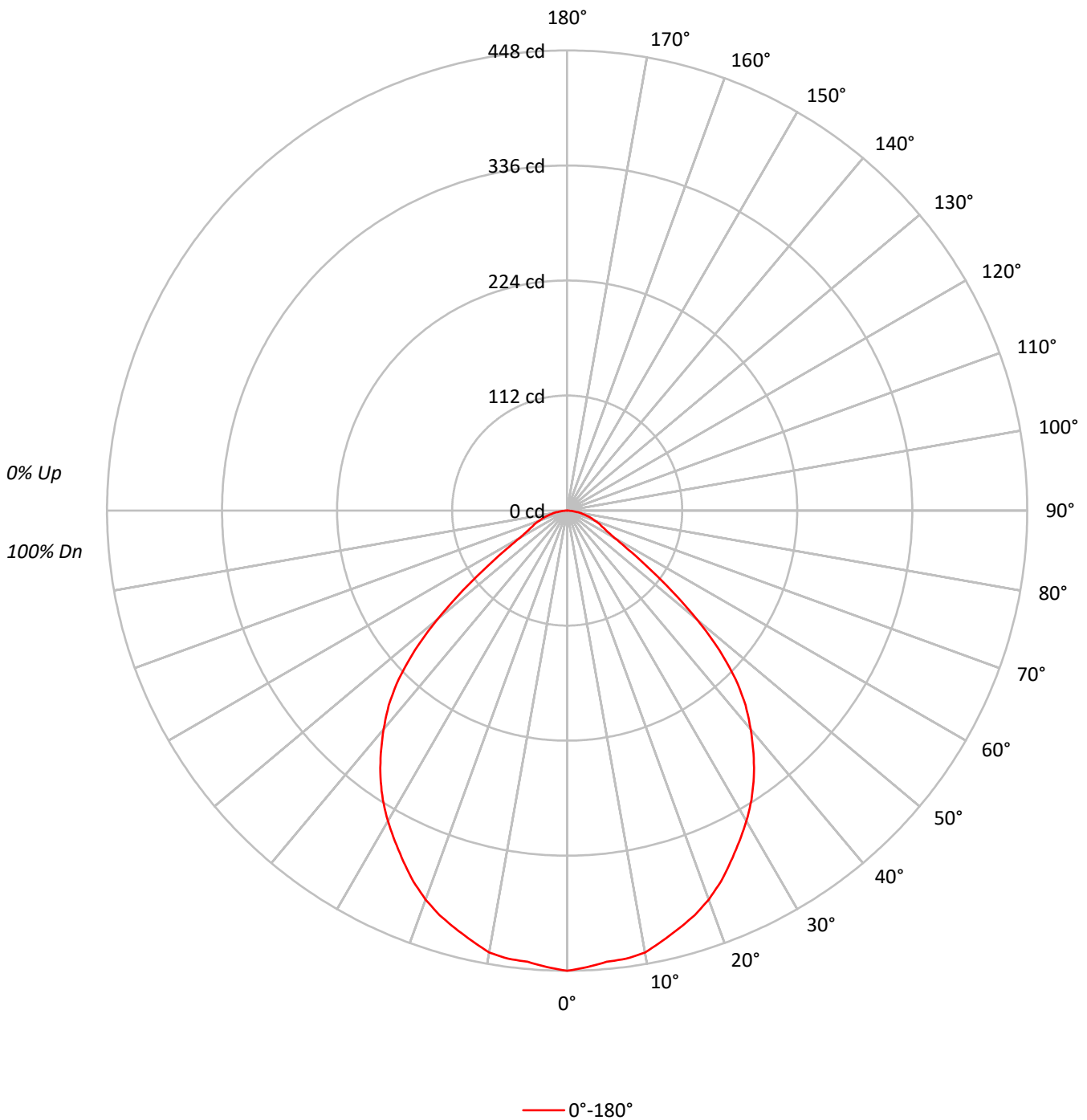
Input Watts (W): 26.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	111	107	104	101	109	105	102	99	101	99	96		97	95	93		94	92	91	89
2	103	97	91	86	101	95	90	85	91	87	83		88	85	82		85	82	80	78
3	96	87	80	75	93	85	79	74	83	77	73		80	75	72		77	74	70	68
4	89	79	71	65	87	77	70	65	75	69	64		73	67	63		71	66	62	61
5	82	71	64	58	81	70	63	57	68	62	57		66	61	56		65	60	56	54
6	77	65	57	52	75	64	57	51	62	56	51		61	55	50		59	54	50	48
7	72	60	52	46	70	59	51	46	57	51	46		56	50	46		55	49	45	43
8	67	55	47	42	66	54	47	42	53	46	42		52	46	41		51	45	41	39
9	63	51	43	38	62	50	43	38	49	42	38		48	42	38		47	41	37	36
10	59	47	40	35	58	46	39	35	45	39	35		45	39	35		44	38	34	33

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	24559
5°	24268
10°	24326
15°	23893
20°	23510
25°	22804
30°	22092
35°	21215
40°	19894
45°	17986
50°	14072
55°	9080
60°	5811
65°	4929
70°	4648
75°	4236
80°	3788
85°	3145



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	42.0	4.9	4.9
10°-20°	118.8	13.8	13.8
20°-30°	173.6	20.1	20.2
30°-40°	197.4	22.9	22.9
40°-50°	175.3	20.3	20.4
50°-60°	89.2	10.3	10.4
60°-70°	38.8	4.5	4.5
70°-80°	21.5	2.5	2.5
80°-90°	5.7	0.7	0.7
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°	334.5	38.8	38.8
0°-40°	531.9	61.7	61.8
0°-60°	796.4	92.3	92.5
0°-90°	862.4	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°	862.4	100.0	100.2

CANDELA DISTRIBUTION:

	0°	Flux
0°	448	
5°	441	42
15°	421	119
25°	377	174
35°	317	197
45°	232	175
55°	95	89
65°	38	39
75°	20	21
85°	5	6
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	448
2.5°	445
5°	441
7.5°	440
10°	437
12.5°	429
15°	421
17.5°	413
20°	403
22.5°	391
25°	377
27.5°	363
30°	349
32.5°	334
35°	317
37.5°	298
40°	278
42.5°	257
45°	232
47.5°	201
50°	165
52.5°	128
55°	95
57.5°	70
60°	53
62.5°	44
65°	38
67.5°	34
70°	29
72.5°	25
75°	20
77.5°	16
80°	12
82.5°	8
85°	5
87.5°	2
90°	0

(END OF REPORT)