

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: P20155

Luminaire Tested: **ML712827TUNVD010-493TBZS06**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P20155
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: ML712827TUNVD010-493TBZS06
Description: HALO 6" RECESSED LED DOWNLIGHT WITH TUSCAN BRONZE TRIM AND SOLITE 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: 1024 (1 lamp)
Luminaire Lumens: 1025.2 lumens
Efficiency: 100.1%
Efficacy: 37.3 lumens/watt
Spacing Criteria (0/90/45): 0.78 / 0.78 / 0.95
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

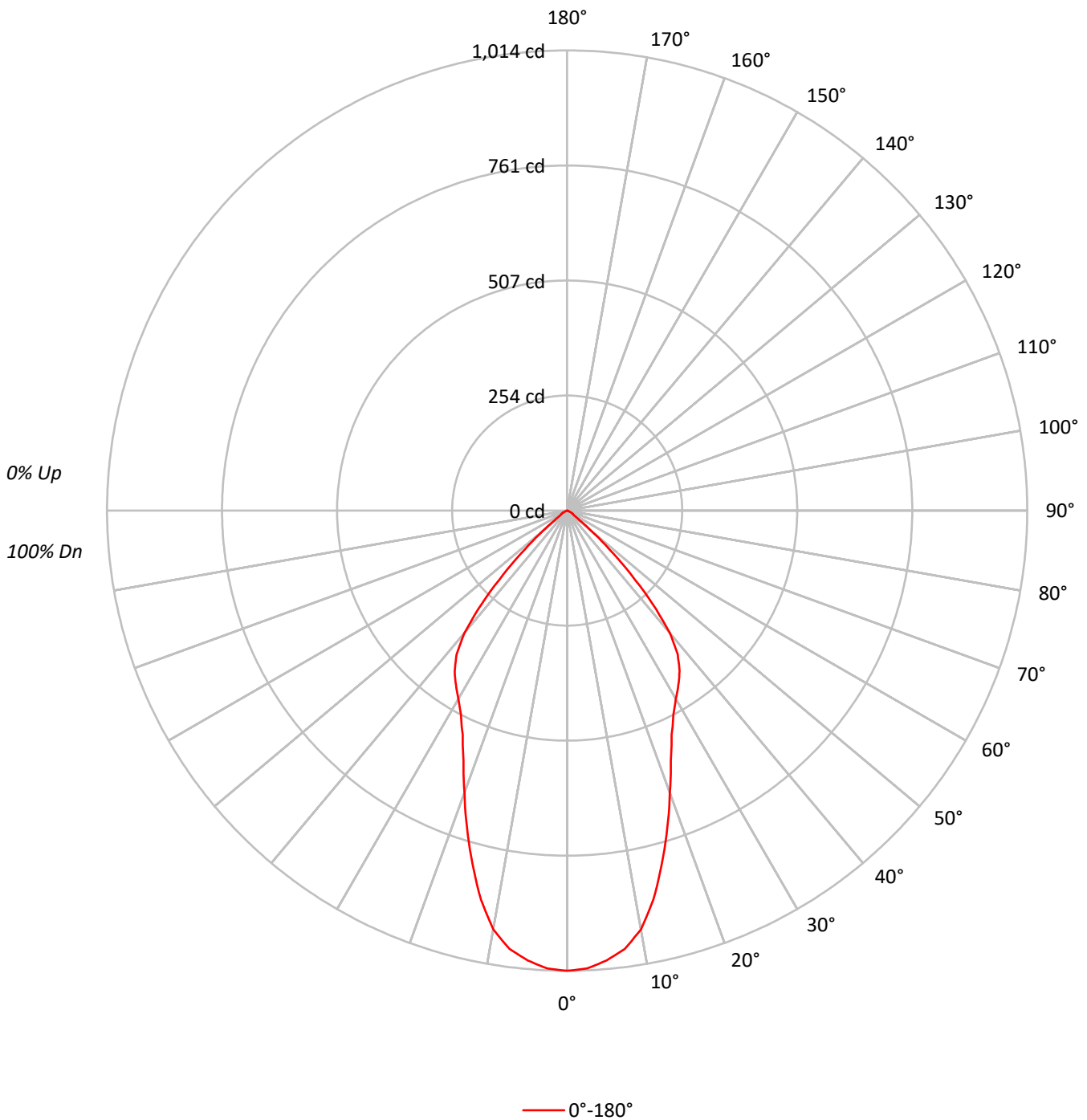
Input Watts (W): 27.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	111	108	106	103	104	102	100		100	99	97		97	95	94	93
2	107	101	97	93	105	100	96	92	96	93	90		93	91	88		91	88	86	85
3	101	94	88	84	99	92	87	83	89	85	82		87	83	80		85	82	79	77
4	95	86	80	76	93	85	80	75	83	78	74		81	77	73		79	76	73	71
5	89	80	74	69	88	79	73	69	77	72	68		76	71	67		74	70	67	65
6	84	74	68	63	83	74	67	63	72	66	62		71	66	62		69	65	61	60
7	79	69	63	58	78	69	62	58	67	62	57		66	61	57		65	60	57	55
8	75	65	58	54	74	64	58	53	63	57	53		62	57	53		61	56	53	51
9	71	61	54	50	70	60	54	50	59	53	49		58	53	49		57	52	49	48
10	67	57	50	46	66	56	50	46	55	50	46		55	50	46		54	49	46	44

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	55588
5°	54754
10°	52159
15°	45744
20°	38620
25°	32966
30°	30321
35°	28911
40°	25190
45°	15350
50°	5799
55°	1912
60°	1535
65°	1167
70°	481
75°	0
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	93.3	9.1	9.1
10°-20°	224.0	21.8	21.9
20°-30°	254.4	24.8	24.8
30°-40°	266.1	26.0	26.0
40°-50°	153.9	15.0	15.0
50°-60°	24.5	2.4	2.4
60°-70°	8.5	0.8	0.8
70°-80°	0.7	0.1	0.1
80°-90°	0.0	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°	571.6	55.8	55.8
0°-40°	837.6	81.7	81.8
0°-60°	1016.1	99.1	99.2
0°-90°	1025.2	100.0	100.1
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°	1025.2	100.0	100.1

CANDELA DISTRIBUTION:

	0°	Flux
0°	1014	
5°	995	93
15°	806	224
25°	545	254
35°	432	266
45°	198	154
55°	20	24
65°	9	8
75°	0	1
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1014
2.5°	1010
5°	995
7.5°	974
10°	937
12.5°	878
15°	806
17.5°	734
20°	662
22.5°	597
25°	545
27.5°	507
30°	479
32.5°	456
35°	432
37.5°	400
40°	352
42.5°	278
45°	198
47.5°	125
50°	68
52.5°	34
55°	20
57.5°	16
60°	14
62.5°	11
65°	9
67.5°	6
70°	3
72.5°	1
75°	0
77.5°	0
80°	0
82.5°	0
85°	0
87.5°	0
90°	0

(END OF REPORT)