

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: P20147

Luminaire Tested: **ML712835TUNVD010-493WBS06**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P20147
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: ML712835TUNVD010-493WBS06
Description: HALO 6" RECESSED LED DOWNLIGHT WITH WHITE BAFFLED DESIGN
LOWER TRIM REFLECTOR, SPECULAR UPPER TRIM REFLECTOR AND
SOLITE GLASS LENS WITH MODULE ML712835TUNVD010
Light Source: (1)SURFACE MOUNT LED ON HEAT SINK MODULE
(1)24 WATTS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: 1382 (1 lamp)
Luminaire Lumens: 1383.8 lumens
Efficiency: 100.1%
Efficacy: 52.4 lumens/watt
Spacing Criteria (0/90/45): 0.79 / 0.79 / 0.97
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

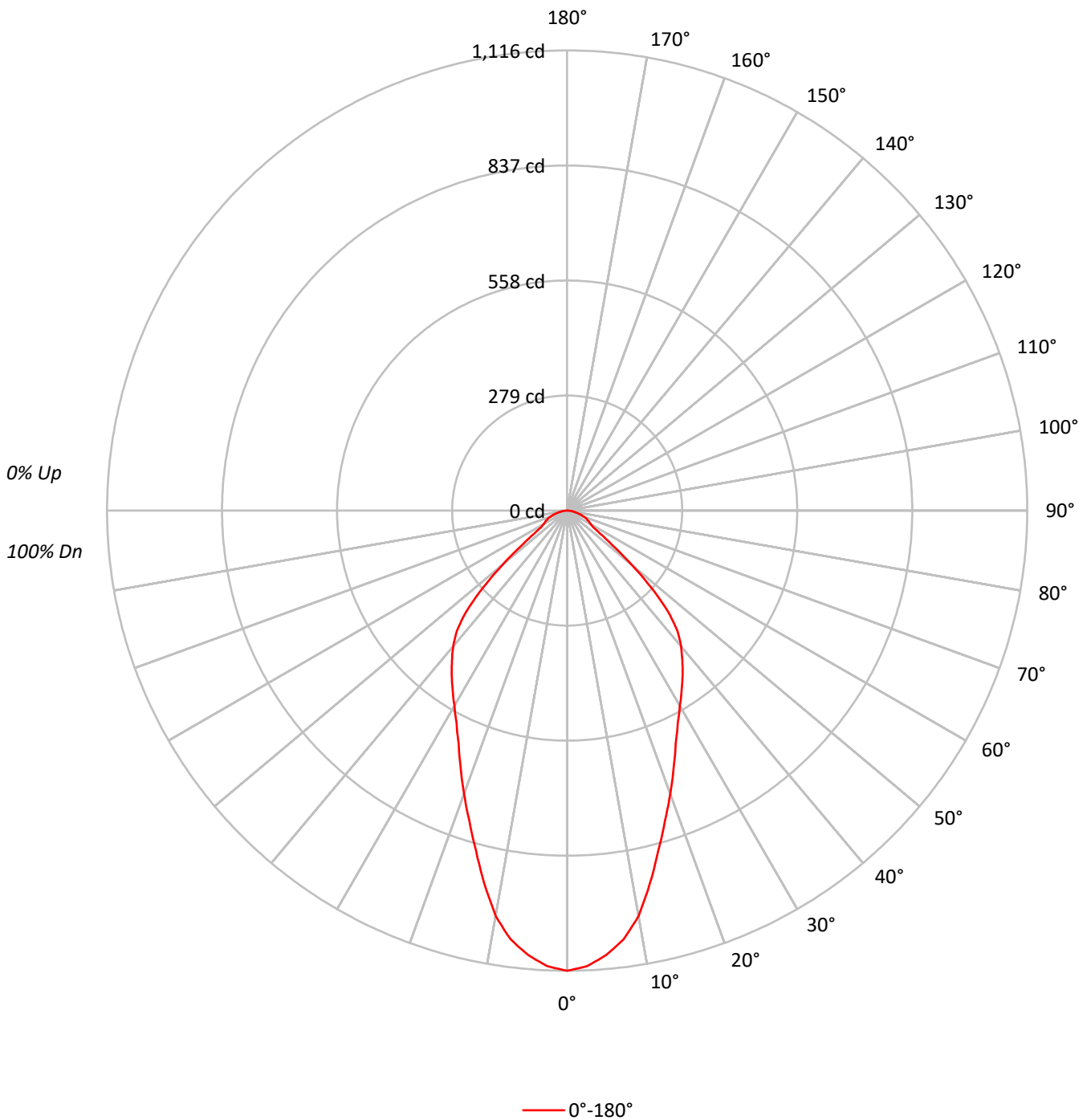
Input Watts (W): 26.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	112	108	105	102	109	106	103	100	102	99	97		98	96	94		94	93	92	90
2	104	98	93	88	102	96	91	87	93	89	85		90	86	83		87	84	82	80
3	97	89	83	77	95	87	82	77	85	80	75		82	78	74		80	76	73	71
4	91	81	74	69	89	80	73	68	78	72	67		75	70	67		73	69	66	64
5	85	74	67	62	83	73	66	61	71	65	61		69	64	60		68	63	59	58
6	79	68	61	56	78	67	60	55	66	60	55		64	59	54		63	58	54	52
7	74	63	56	51	73	62	55	50	61	55	50		60	54	50		58	53	49	48
8	70	58	51	46	69	58	51	46	57	50	46		55	50	46		54	49	45	44
9	66	54	47	43	65	54	47	42	53	47	42		52	46	42		51	46	42	40
10	62	51	44	39	61	50	44	39	49	43	39		49	43	39		48	43	39	37

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	61179
5°	59542
10°	55555
15°	48468
20°	42645
25°	37684
30°	34626
35°	32658
40°	30772
45°	26824
50°	17398
55°	9366
60°	7236
65°	7134
70°	6892
75°	6142
80°	5367
85°	4403



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	100.7	7.3	7.3
10°-20°	239.5	17.3	17.3
20°-30°	288.9	20.9	20.9
30°-40°	305.2	22.1	22.1
40°-50°	256.2	18.5	18.5
50°-60°	99.5	7.2	7.2
60°-70°	54.6	3.9	3.9
70°-80°	30.8	2.2	2.2
80°-90°	8.3	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°	629.1	45.5	45.5
0°-40°	934.3	67.5	67.6
0°-60°	1290.1	93.2	93.3
0°-90°	1383.8	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°	1383.8	100.0	100.1

CANDELA DISTRIBUTION:

	0°	Flux
0°	1116	
5°	1082	101
15°	854	239
25°	623	289
35°	488	305
45°	346	256
55°	98	100
65°	55	55
75°	29	31
85°	7	8
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1116
2.5°	1106
5°	1082
7.5°	1049
10°	998
12.5°	927
15°	854
17.5°	789
20°	731
22.5°	675
25°	623
27.5°	581
30°	547
32.5°	517
35°	488
37.5°	459
40°	430
42.5°	396
45°	346
47.5°	277
50°	204
52.5°	141
55°	98
57.5°	75
60°	66
62.5°	61
65°	55
67.5°	50
70°	43
72.5°	36
75°	29
77.5°	22
80°	17
82.5°	12
85°	7
87.5°	3
90°	0

(END OF REPORT)