

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: P20122

Luminaire Tested: **ML712830TUNVD010 - 492PS06**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P20122  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO  
Catalog Number: ML712830TUNVD010 - 492PS06  
Description: HALO 6" RECESSED LED DOWNLIGHT WITH ALUMINUM SHOWER TRIM AND GLASS LENS WITH MODULE ML712830TUNVD010  
Light Source: (1)SURFACE MOUNT LED ON HEAT SINK MODULE  
(1) 24 WATTS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

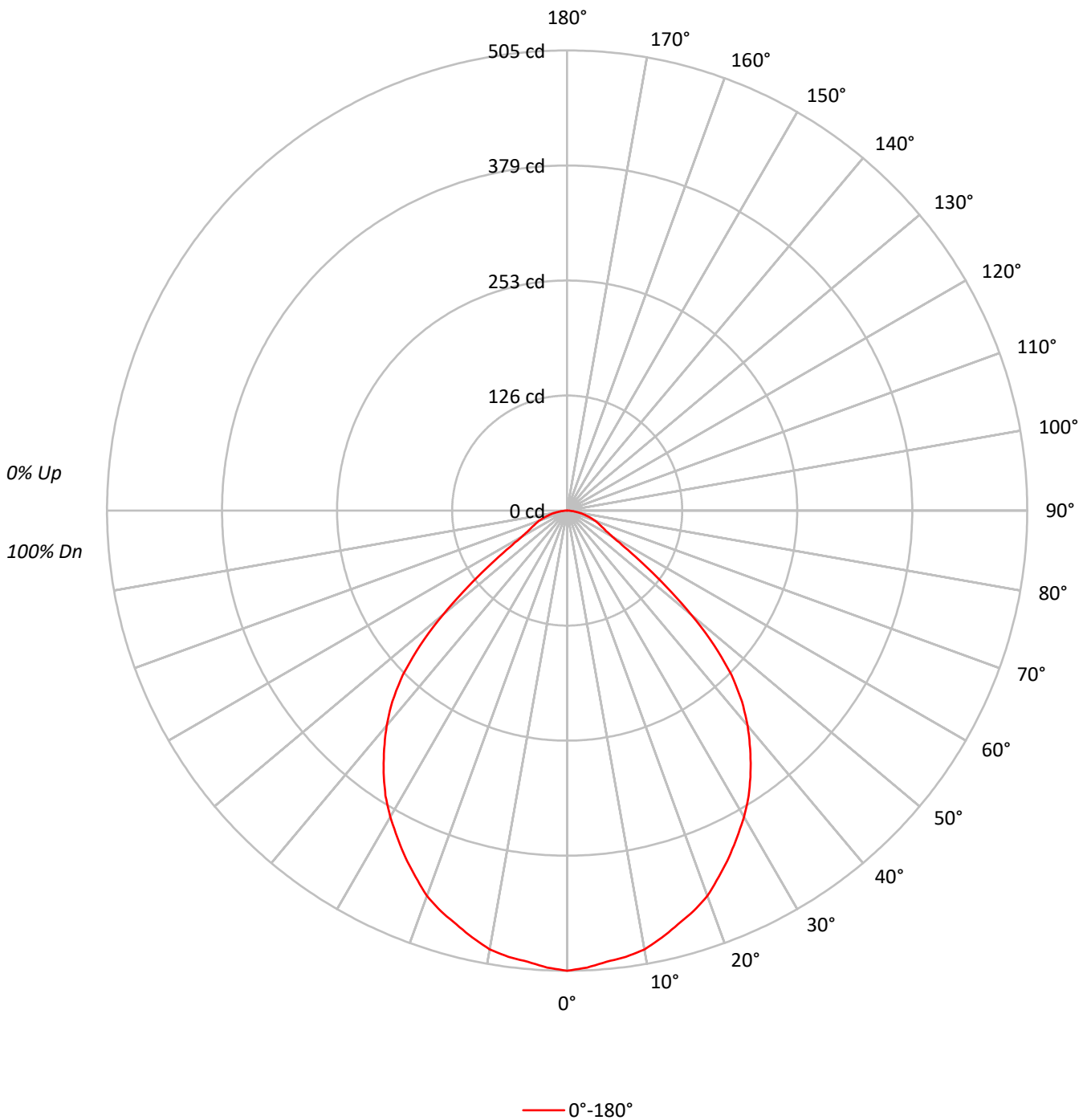
Lumens per Lamp: 952 (2 lamps)  
Luminaire Lumens: 952.5 lumens  
Efficiency: 50.0%  
Efficacy: 35.1 lumens/watt  
Spacing Criteria (0/90/45): 1.15 / 1.15 / 1.24  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 27.1  
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	60	60	60	60	58	58	58	58	56	56	56		53	53	53		51	51	51	50
1	56	54	52	50	54	53	51	50	51	49	48		49	48	47		47	46	45	44
2	52	48	45	43	50	47	45	43	46	44	42		44	42	41		43	41	40	39
3	48	43	40	37	47	43	40	37	41	39	36		40	38	36		39	37	35	34
4	44	39	36	33	43	39	35	33	37	34	32		36	34	32		35	33	31	30
5	41	36	32	29	40	35	32	29	34	31	29		33	30	28		32	30	28	27
6	38	33	29	26	38	32	28	26	31	28	26		30	28	25		30	27	25	24
7	36	30	26	23	35	29	26	23	29	25	23		28	25	23		27	25	23	22
8	34	27	24	21	33	27	24	21	27	23	21		26	23	21		25	23	21	20
9	31	25	22	19	31	25	22	19	25	21	19		24	21	19		24	21	19	18
10	30	24	20	18	29	23	20	17	23	20	17		22	19	17		22	19	17	16

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	27684
5°	27350
10°	27221
15°	26674
20°	26252
25°	25405
30°	24561
35°	23490
40°	22041
45°	19769
50°	15181
55°	9653
60°	6249
65°	5448
70°	5289
75°	4660
80°	4104
85°	3145



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	47.3	5.0	2.5
10°-20°	132.7	13.9	7.0
20°-30°	193.3	20.3	10.2
30°-40°	218.9	23.0	11.5
40°-50°	192.4	20.2	10.1
50°-60°	95.3	10.0	5.0
60°-70°	42.5	4.5	2.2
70°-80°	24.0	2.5	1.3
80°-90°	6.1	0.6	0.3
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°	373.3	39.2	19.6
0°-40°	592.2	62.2	31.1
0°-60°	879.9	92.4	46.2
0°-90°	952.5	100.0	50.0
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°	952.5	100.0	50.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	505	
5°	497	47
15°	470	133
25°	420	193
35°	351	219
45°	255	192
55°	101	95
65°	42	43
75°	22	24
85°	5	6
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	505
2.5°	502
5°	497
7.5°	494
10°	489
12.5°	480
15°	470
17.5°	461
20°	450
22.5°	435
25°	420
27.5°	404
30°	388
32.5°	371
35°	351
37.5°	330
40°	308
42.5°	284
45°	255
47.5°	219
50°	178
52.5°	137
55°	101
57.5°	74
60°	57
62.5°	48
65°	42
67.5°	37
70°	33
72.5°	28
75°	22
77.5°	18
80°	13
82.5°	9
85°	5
87.5°	2
90°	0

(END OF REPORT)