

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: HALO COMMERCIAL

Report Number: P210149

Luminaire Tested: **PR830D010 - PR8M34MDMMS - 3000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P210149
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29049)
Test Lab: INNOVATION CENTER-P2
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PR830D010 - PR8M34MDMMS - 3000K
Description: HALO 8" ROUND DOWNLIGHT, MEDIUM LENS, MATTE METALLIC SILVER FINISH
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3091.6 lumens
Efficiency: N/A
Efficacy: 108.5 lumens/watt
Spacing Criteria (0/90/45): 1.04 / 1.04 / 1.13
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

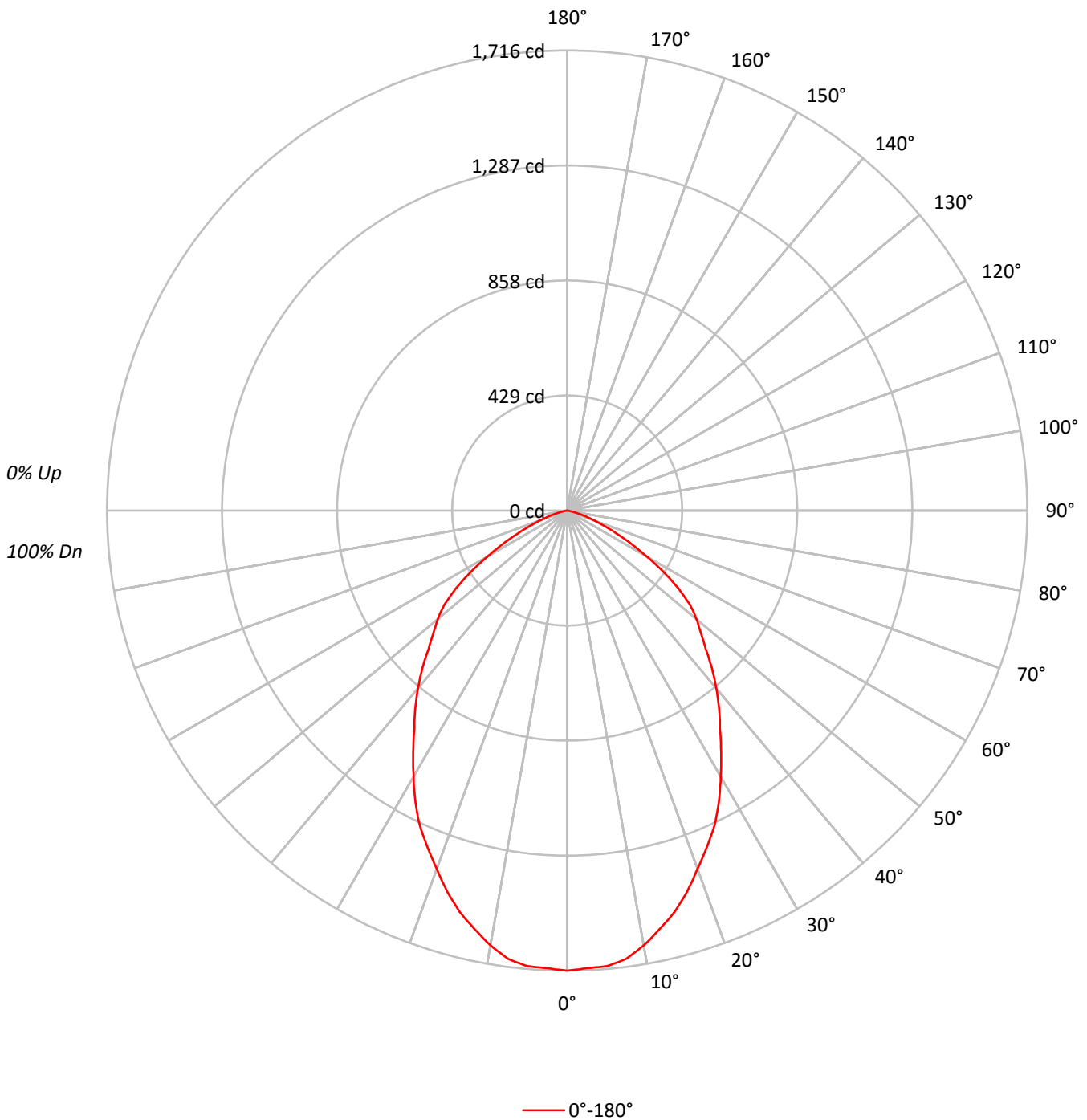
Input Watts (W): 28.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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		106	106	106		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	96	91	86	100	94	89	85	91	87	83		88	84	81		85	82	79	77
3	95	86	79	74	93	85	78	73	82	76	72		79	75	71		77	73	70	68
4	88	78	70	64	86	76	69	64	74	68	63		72	66	62		70	65	61	59
5	82	70	62	57	80	69	62	56	67	61	56		65	60	55		64	59	55	53
6	76	64	56	50	74	63	56	50	61	55	50		60	54	49		58	53	49	47
7	71	59	51	45	69	58	50	45	56	50	45		55	49	44		54	48	44	42
8	66	54	46	41	65	53	46	41	52	45	40		51	45	40		50	44	40	38
9	62	50	42	37	61	49	42	37	48	42	37		47	41	37		46	41	37	35
10	58	46	39	34	57	46	39	34	45	38	34		44	38	34		43	38	34	32

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	52912
5°	52792
10°	51558
15°	49463
20°	46654
25°	44194
30°	40791
35°	37403
40°	34832
45°	31891
50°	30223
55°	27230
60°	21271
65°	14987
70°	9449
75°	5290
80°	1474
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.9	5.2
10°-20°	434.1	14.0
20°-30°	594.4	19.2
30°-40°	624.5	20.2
40°-50°	569.5	18.4
50°-60°	445.8	14.4
60°-70°	209.4	6.8
70°-80°	51.7	1.7
80°-90°	1.3	0.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1189.4	38.5
0°-40°	1813.9	58.7
0°-60°	2829.2	91.5
0°-90°	3091.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3091.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1716	
5°	1706	161
15°	1549	434
25°	1299	594
35°	994	624
45°	731	570
55°	506	446
65°	205	209
75°	44	52
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1715.9
2.5°	1708.3
5°	1705.5
7.5°	1686.1
10°	1646.6
12.5°	1598.0
15°	1549.4
17.5°	1489.0
20°	1421.7
22.5°	1360.0
25°	1298.9
27.5°	1226.1
30°	1145.6
32.5°	1068.6
35°	993.6
37.5°	930.5
40°	865.3
42.5°	800.0
45°	731.3
47.5°	675.8
50°	630.0
52.5°	578.0
55°	506.5
57.5°	426.7
60°	344.9
62.5°	271.3
65°	205.4
67.5°	148.5
70°	104.8
72.5°	71.5
75°	44.4
77.5°	24.3
80°	8.3
82.5°	0.7
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)