

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: P210631

Luminaire Tested: **PR8S30D010 - PR8M34MDMMS - 4000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P210631
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: PR8S30D010 - PR8M34MDMMS - 4000K
Description: HALO 8" ROUND DOWNLIGHT, MEDIUM LENS, MATTE METALLIC SILVER FINISH
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2743.5 lumens
Efficiency: N/A
Efficacy: 96.3 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

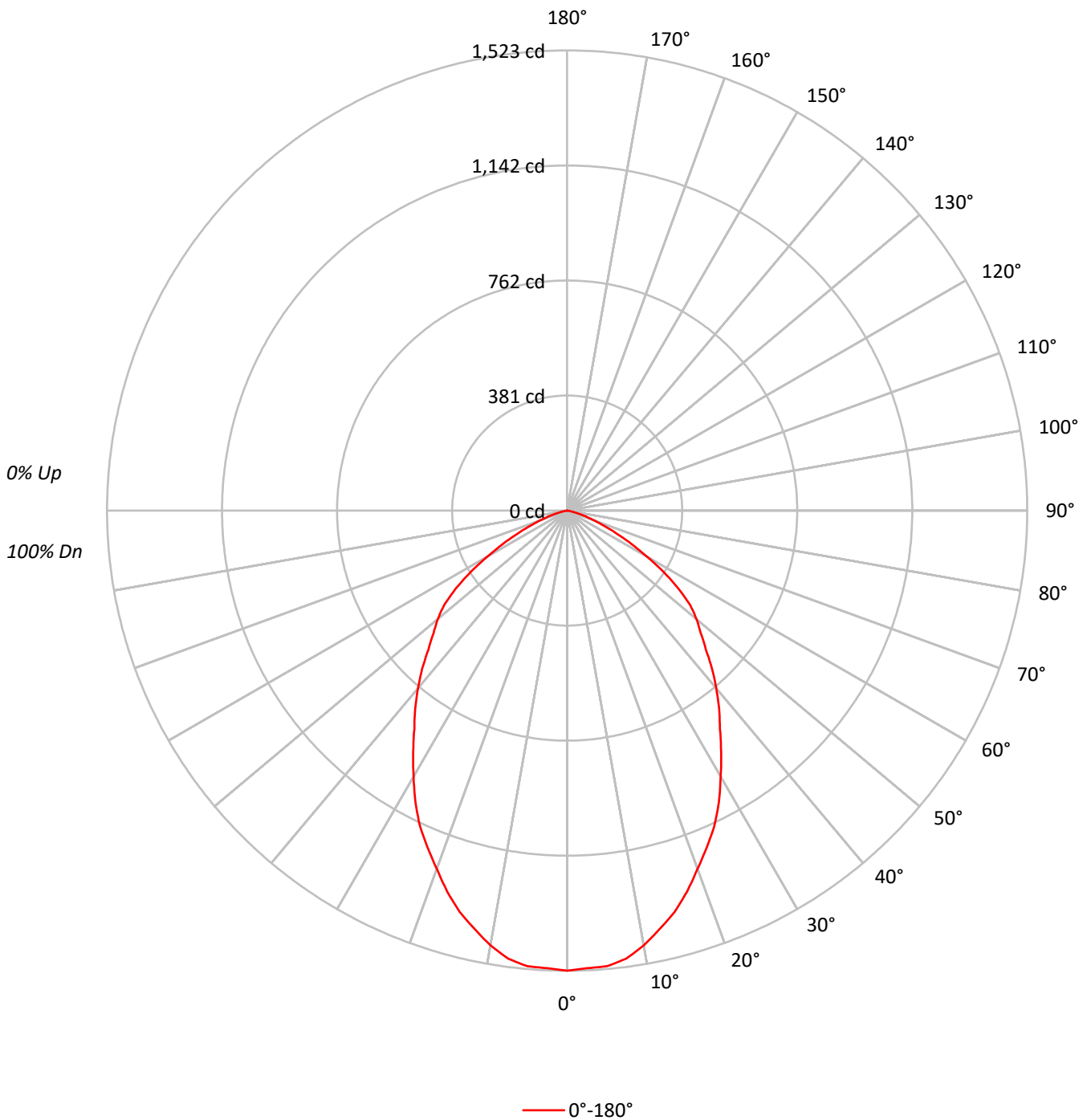
Input Watts (W): 28.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	46954
5°	46849
10°	45750
15°	43892
20°	41400
25°	39220
30°	36198
35°	33191
40°	30907
45°	28302
50°	26822
55°	24166
60°	18872
65°	13302
70°	8385
75°	4694
80°	1314
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.8	5.2
10°-20°	385.2	14.0
20°-30°	527.5	19.2
30°-40°	554.2	20.2
40°-50°	505.4	18.4
50°-60°	395.6	14.4
60°-70°	185.8	6.8
70°-80°	45.8	1.7
80°-90°	1.2	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°	1055.5	38.5
0°-40°	1609.6	58.7
0°-60°	2510.6	91.5
0°-90°	2743.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2743.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1523	
5°	1514	143
15°	1375	385
25°	1153	527
35°	882	554
45°	649	505
55°	450	396
65°	182	186
75°	39	46
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1522.7
2.5°	1515.9
5°	1513.5
7.5°	1496.2
10°	1461.1
12.5°	1418.0
15°	1374.9
17.5°	1321.4
20°	1261.6
22.5°	1206.8
25°	1152.7
27.5°	1088.0
30°	1016.6
32.5°	948.2
35°	881.7
37.5°	825.7
40°	767.8
42.5°	709.9
45°	649.0
47.5°	599.7
50°	559.1
52.5°	512.9
55°	449.5
57.5°	378.7
60°	306.0
62.5°	240.8
65°	182.3
67.5°	131.8
70°	93.0
72.5°	63.4
75°	39.4
77.5°	21.6
80°	7.4
82.5°	0.6
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)