

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: P210309

Luminaire Tested: **PR830D010 - PR8M34WDMMS - 3500K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P210309
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29051)
Test Lab: INNOVATION CENTER-P2
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PR830D010 - PR8M34WDMMS - 3500K
Description: HALO 8" ROUND DOWNLIGHT, WIDE LENS, MATTE METALLIC SILVER FINISH
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3469.1 lumens
Efficiency: N/A
Efficacy: 121.7 lumens/watt
Spacing Criteria (0/90/45): 1.37 / 1.37 / 1.39
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

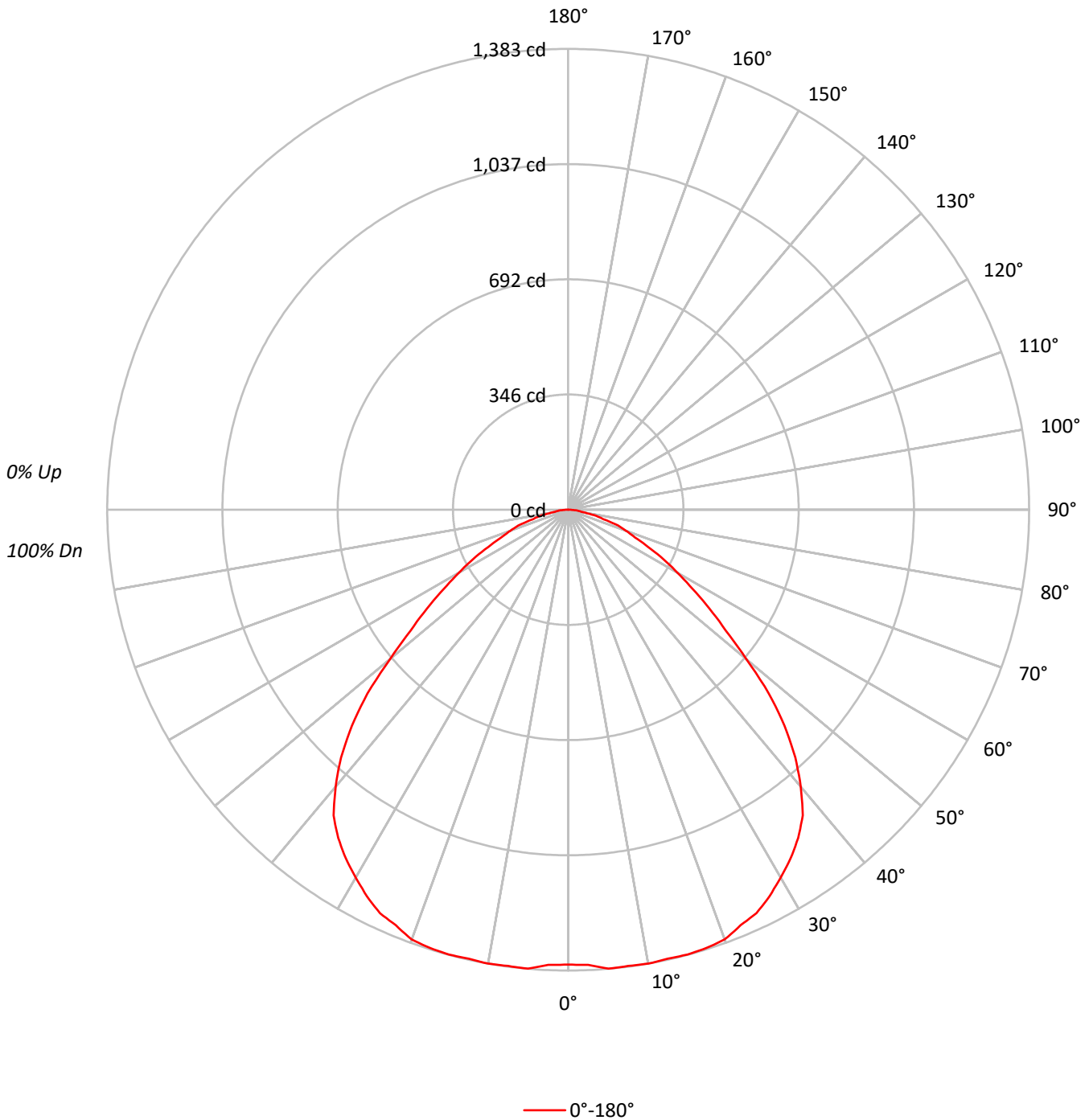
Input Watts (W): 28.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P210309

CATALOG NUMBER: PR830D010 - PR8M34WDMMS - 3500K

Luminous Intensity Polar Plot





TEST NUMBER: P210309

CATALOG NUMBER: PR830D010 - PR8M34WDMMS - 3500K

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	110	106	103	99	108	104	101	98	100	97	95		96	94	92		92	91	89	87
2	102	94	88	83	99	92	87	82	89	84	80		86	82	79		83	80	77	75
3	93	84	77	71	91	82	76	70	79	74	69		77	72	68		74	70	67	65
4	86	75	67	61	84	74	66	61	71	65	60		69	64	59		67	62	58	56
5	80	68	59	53	78	67	59	53	64	58	52		63	57	52		61	56	51	49
6	74	61	53	47	72	60	52	47	59	52	46		57	51	46		55	50	46	44
7	68	56	48	42	67	55	47	42	53	46	41		52	46	41		51	45	41	39
8	64	51	43	37	62	50	43	37	49	42	37		48	42	37		47	41	37	35
9	60	47	39	34	58	46	39	34	45	38	34		44	38	33		43	37	33	31
10	56	43	36	31	55	43	36	31	42	35	31		41	35	30		40	34	30	29

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	42092
5°	42797
10°	43314
15°	44116
20°	45046
25°	45456
30°	45388
35°	45275
40°	43700
45°	40020
50°	33432
55°	27800
60°	23362
65°	19299
70°	16598
75°	13022
80°	9021
85°	9482



TEST NUMBER: P210309

CATALOG NUMBER: PR830D010 - PR8M34WDMMS - 3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.7	3.8
10°-20°	391.0	11.3
20°-30°	614.1	17.7
30°-40°	748.6	21.6
40°-50°	699.6	20.2
50°-60°	466.7	13.5
60°-70°	268.5	7.7
70°-80°	123.8	3.6
80°-90°	25.1	0.7
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°	1136.8	32.8
0°-40°	1885.4	54.3
0°-60°	3051.7	88.0
0°-90°	3469.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3469.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1365	
5°	1383	132
15°	1382	391
25°	1336	614
35°	1203	749
45°	918	700
55°	517	467
65°	264	268
75°	109	124
85°	27	25
90°	0	



TEST NUMBER: P210309

CATALOG NUMBER: PR830D010 - PR8M34WDMMS - 3500K

CANDELA DISTRIBUTION (FULL):

	0°
0°	1365.0
2.5°	1367.1
5°	1382.6
7.5°	1381.2
10°	1383.3
12.5°	1380.5
15°	1381.9
17.5°	1379.1
20°	1372.7
22.5°	1350.2
25°	1336.0
27.5°	1307.8
30°	1274.7
32.5°	1241.5
35°	1202.7
37.5°	1156.2
40°	1085.6
42.5°	1008.7
45°	917.7
47.5°	816.9
50°	696.9
52.5°	595.4
55°	517.1
57.5°	442.3
60°	378.8
62.5°	323.8
65°	264.5
67.5°	217.3
70°	184.1
72.5°	156.6
75°	109.3
77.5°	86.8
80°	50.8
82.5°	32.4
85°	26.8
87.5°	7.8
90°	0.0

(END OF REPORT)