

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: P345389

Luminaire Tested: **PR4FS24D010 PR4M24WD8FSBZ 4000Lm3500K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P345389
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1908-453-6)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PR4FS24D010 PR4M24WD8FSBZ 4000Lm3500K
Description: PR4 WIDE LENS WITH, BRONZE FINISH
Light Source: ARRAY OF HIGH LUMEN LEDs 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3225.2 lumens
Efficiency: N/A
Efficacy: 82.7 lumens/watt
Spacing Criteria (0/90/45): 1.62 / 1.62 / 1.57
Luminous Opening: Circular (Dia: 0.4' x H: 0')
CIE Type: Direct

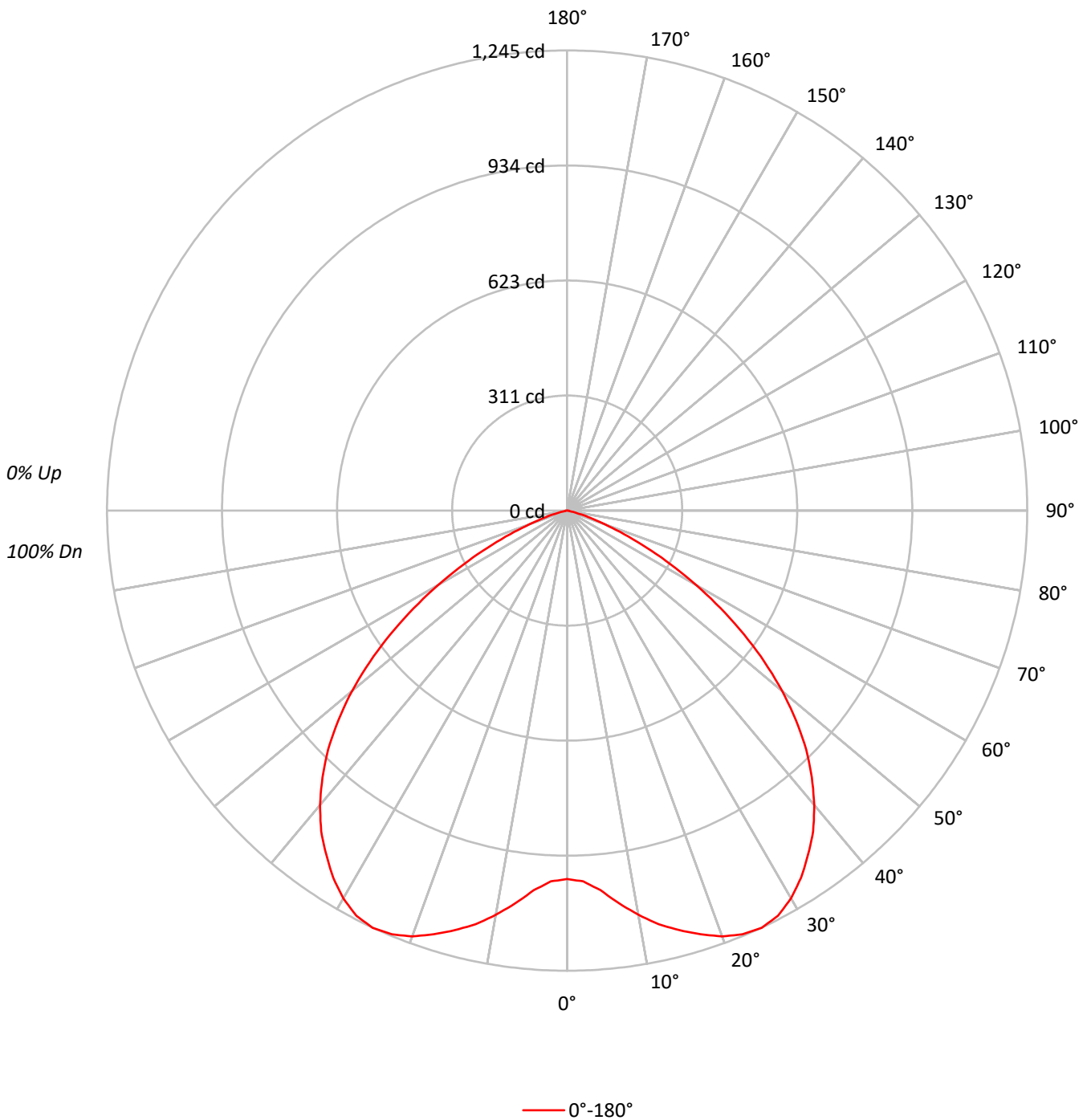
Input Watts (W): 39
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	103	100	108	105	102	99	101	98	96	97	95	93	93	91	90	88
2	102	95	89	84	100	93	88	83	90	85	81	87	83	80	84	81	78	76
3	94	85	77	72	91	83	76	71	80	74	70	77	73	69	75	71	67	65
4	86	75	67	61	84	74	67	61	72	65	60	69	64	59	67	63	59	57
5	80	68	59	53	78	67	59	53	65	58	52	63	57	52	61	56	51	49
6	74	61	53	47	72	60	52	46	58	51	46	57	50	46	55	50	45	43
7	68	55	47	41	67	55	47	41	53	46	41	52	45	41	50	45	40	38
8	63	51	42	37	62	50	42	37	49	41	36	47	41	36	46	40	36	34
9	59	46	38	33	58	46	38	33	45	38	33	44	37	33	43	37	32	31
10	55	43	35	30	54	42	35	30	41	34	30	40	34	30	39	34	29	28

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	87181
5°	90482
10°	98607
15°	106429
20°	114120
25°	120186
30°	122363
35°	121377
40°	118773
45°	113149
50°	103447
55°	89074
60°	70500
65°	48948
70°	27774
75°	11423
80°	2418
85°	4817



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.1	3.1
10°-20°	334.1	10.4
20°-30°	571.5	17.7
30°-40°	709.9	22.0
40°-50°	700.8	21.7
50°-60°	519.8	16.1
60°-70°	240.1	7.4
70°-80°	44.0	1.4
80°-90°	3.9	0.1
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°	1006.7	31.2
0°-40°	1716.6	53.2
0°-60°	2937.2	91.1
0°-90°	3225.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3225.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	997	
5°	1030	101
15°	1175	334
25°	1245	572
35°	1137	710
45°	915	701
55°	584	520
65°	236	240
75°	34	44
85°	5	4
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	996.7
2.5°	1004.0
5°	1030.5
7.5°	1071.6
10°	1110.2
12.5°	1146.4
15°	1175.3
17.5°	1201.9
20°	1226.0
22.5°	1240.5
25°	1245.3
27.5°	1235.7
30°	1211.5
32.5°	1177.8
35°	1136.7
37.5°	1093.3
40°	1040.2
42.5°	979.9
45°	914.7
47.5°	839.9
50°	760.2
52.5°	673.3
55°	584.1
57.5°	492.3
60°	403.0
62.5°	316.2
65°	236.5
67.5°	166.5
70°	108.6
72.5°	65.2
75°	33.8
77.5°	12.1
80°	4.8
82.5°	4.8
85°	4.8
87.5°	2.4
90°	0.0

(END OF REPORT)