

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: io LED

Report Number: NT90542-GONIOPHOTOMETRY

Luminaire Tested: **MRI-R6DNLT/RPS-35-18-C**

Issue Date: 06/12/18

**Test Information**

Test Method: LM-79-08  
Report Number: NT90542-GONIOPHOTOMETRY  
Test Lab: ITL  
Issue Date: 06/12/18  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: MRI-R6DNLT/RPS-35-18-C  
Description: FABRICATED METAL HOUSING, CAST DIFFUSE FINNED METAL HEAT SINK, FABRICATED SEMI-SPECULAR METAL REFLECTOR MOUNT, MOLDED PLASTIC MULTI-FACETED REFLECTOR WITH SPECULAR FINISH, ONE WHITE CIRCUIT BOARD WITH ONE LED, FORMED WHITE PAINTED METAL LOWER REFLECTOR AND TRIM WITH TRANSLUCENT WHITE FROSTED PLASTIC LENS OVER UPPER APERTURE. LENS FROSTED SIDE OUT.  
Light Source: ONE WHITE MULTI-CHIP LIGHT EMITTING DIODE (LED), VERTICAL BASE-UP POSITION.  
Ballast/Driver: -

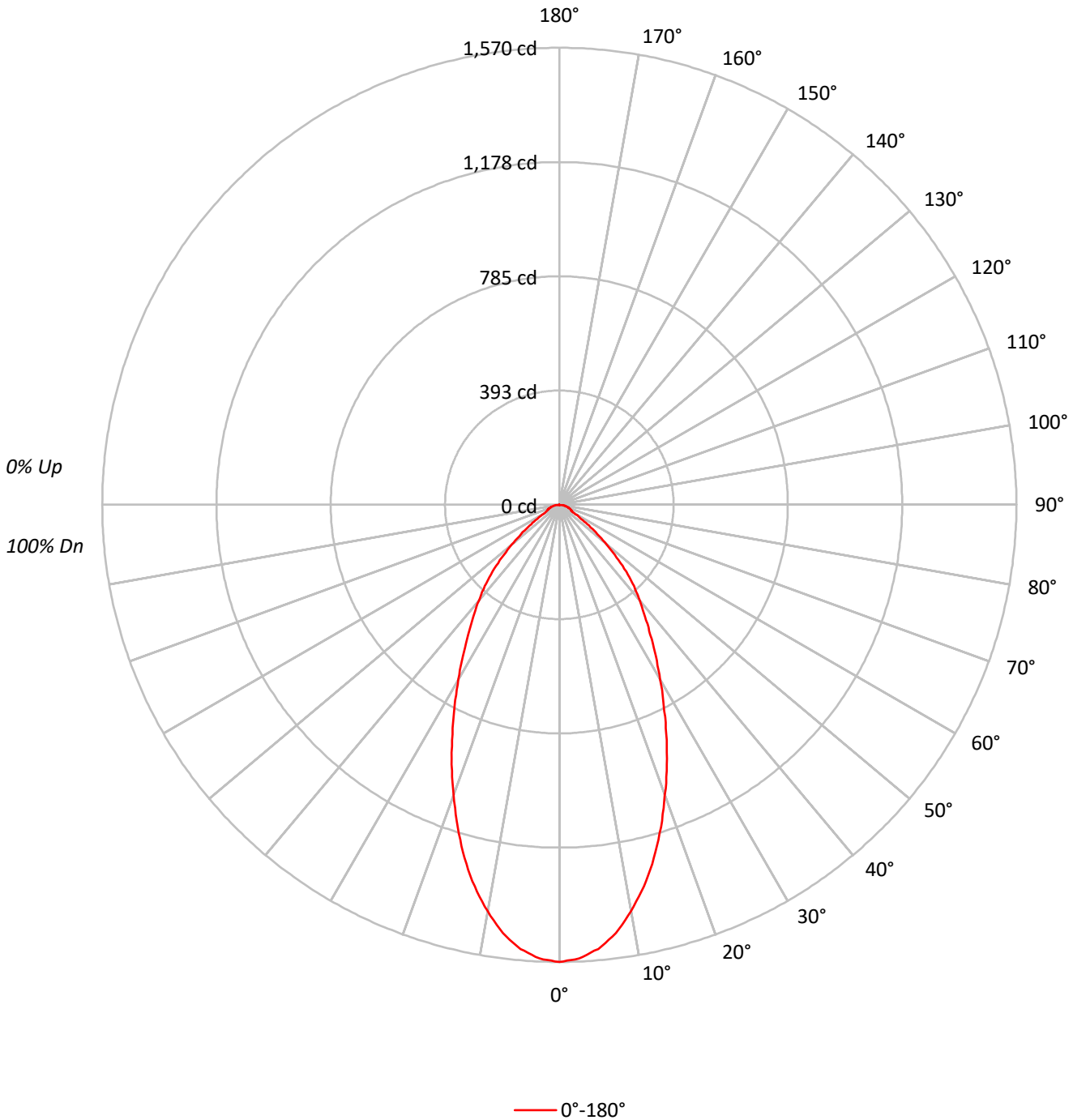
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1685.1 lumens  
Efficiency: N/A  
Efficacy: 56.5 lumens/watt  
Spacing Criteria (0/90/45): 0.81 / 0.81 / 0.88  
Luminous Opening: Circular (Dia: 0.46' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 29.8  
Input Voltage (V): 120.0  
Input Current (A<sub>in</sub>): 0.254  
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				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	50	30	10	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	112	109	106	103	109	106	104	101	102	100	98	98	97	95	95	94	92	90				90
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	85	83	81				81
3	98	91	85	80	96	89	84	79	86	82	78	84	80	76	81	78	75	73				73
4	92	83	76	71	90	82	76	71	80	74	70	78	73	69	76	72	68	67				67
5	87	77	70	65	85	76	69	64	74	68	64	72	67	63	70	66	62	61				61
6	81	71	64	59	80	70	63	59	68	63	58	67	62	58	66	61	57	56				56
7	77	66	59	54	75	65	59	54	64	58	53	63	57	53	61	57	53	51				51
8	72	61	55	50	71	61	54	50	60	54	49	59	53	49	57	53	49	47				47
9	69	57	51	46	67	57	50	46	56	50	46	55	50	46	54	49	46	44				44
10	65	54	47	43	64	53	47	43	53	47	43	52	46	43	51	46	42	41				41

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

	0°
0°	102428
5°	100265
10°	93938
15°	84833
20°	73663
25°	62555
30°	52206
35°	43406
40°	36621
45°	29986
50°	21619
55°	14104
60°	8481
65°	6947
70°	7249
75°	7310
80°	7514
85°	7486



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	142.6	8.5
10°-20°	349.1	20.7
20°-30°	398.7	23.7
30°-40°	343.3	20.4
40°-50°	247.9	14.7
50°-60°	114.9	6.8
60°-70°	46.9	2.8
70°-80°	30.9	1.8
80°-90°	10.9	0.6
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°	890.4	52.8
0°-40°	1233.7	73.2
0°-60°	1596.5	94.7
0°-90°	1685.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1685.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1570	
5°	1531	143
15°	1256	349
25°	869	399
35°	545	343
45°	325	248
55°	124	115
65°	45	47
75°	29	31
85°	10	11
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1570
2.5°	1560
5°	1531
7.5°	1484
10°	1418
12.5°	1343
15°	1256
17.5°	1161
20°	1061
22.5°	966
25°	869
27.5°	777
30°	693
32.5°	616
35°	545
37.5°	484
40°	430
42.5°	379
45°	325
47.5°	267
50°	213
52.5°	165
55°	124
57.5°	90
60°	65
62.5°	51
65°	45
67.5°	42
70°	38
72.5°	34
75°	29
77.5°	25
80°	20
82.5°	15
85°	10
87.5°	5
90°	0

(END OF REPORT)