

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: PORTFOLIO

Report Number: P250507

Luminaire Tested: **LSR8B100D010 EC8B100935 8LBM0GPH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P250507  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P14005)  
Test Lab: INNOVATION CENTER-P1  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B100D010 EC8B100935 8LBM0GPH  
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
90 CRI 3500 CCT WITH GRAPHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8117.0 lumens  
Efficiency: N/A  
Efficacy: 76.4 lumens/watt  
Spacing Criteria (0/90/45): 0.82 / 0.82 / 0.87  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

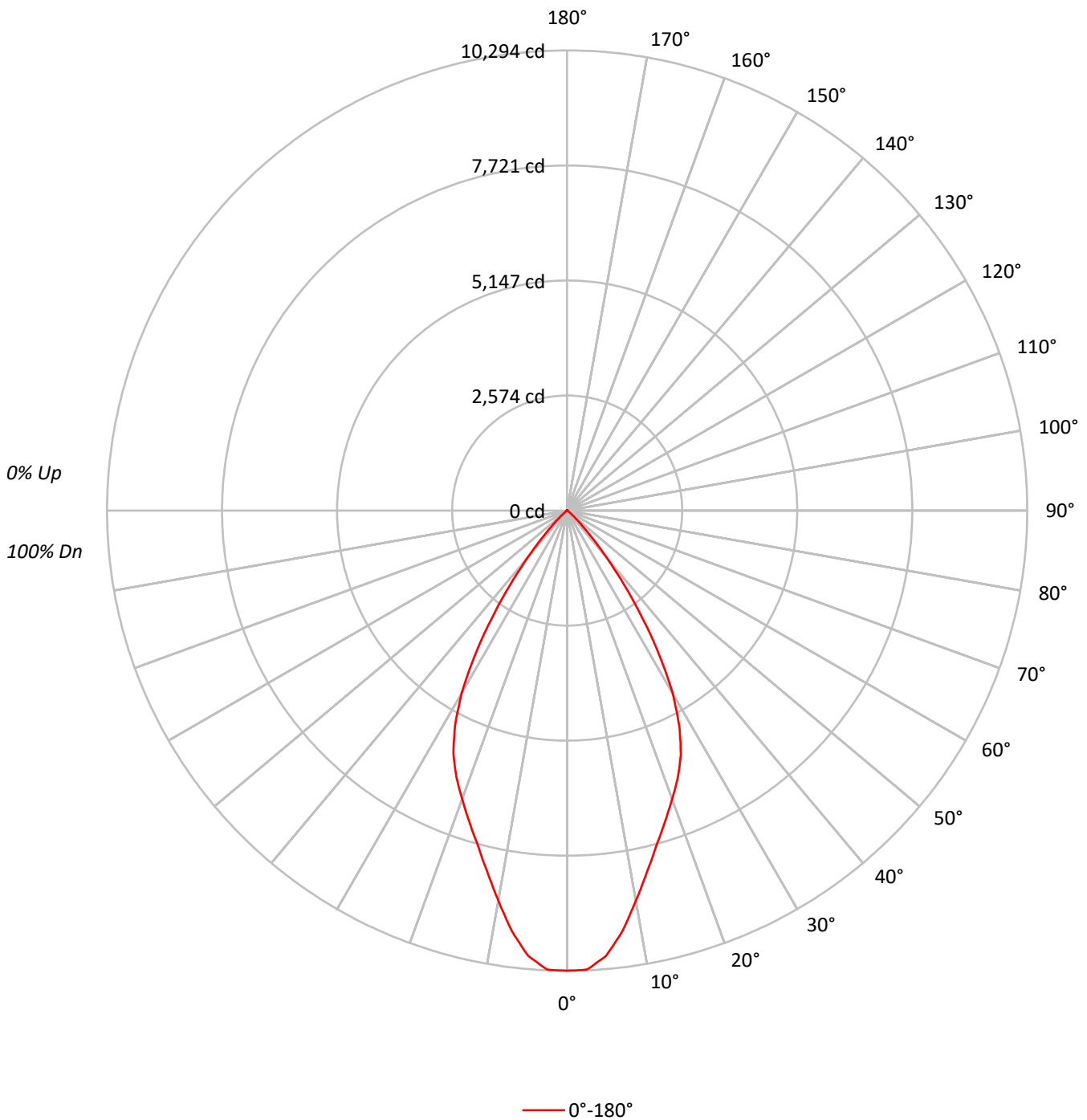
Input Watts (W): 106.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	114	111	108	106	111	109	107	105	105	103	101	101	100	98	98	96	95	94
2	108	103	99	96	106	102	98	95	98	95	93	95	93	91	93	91	89	87
3	103	96	92	88	101	95	91	87	92	89	86	90	87	84	88	85	83	81
4	98	90	85	81	96	89	84	80	87	83	79	85	81	78	83	80	77	76
5	93	85	79	75	91	84	78	74	82	77	74	80	76	73	79	75	72	71
6	88	79	73	69	87	79	73	69	77	72	69	76	71	68	74	71	68	66
7	84	75	69	65	82	74	68	64	73	68	64	72	67	64	70	66	63	62
8	80	70	64	60	79	70	64	60	69	64	60	68	63	60	67	63	59	58
9	76	66	61	57	75	66	60	57	65	60	56	64	59	56	63	59	56	55
10	72	63	57	53	71	62	57	53	62	57	53	61	56	53	60	56	53	51

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

	0°
0°	317444
5°	309417
10°	277377
15°	247045
20°	225366
25°	204757
30°	167900
35°	110497
40°	55120
45°	20514
50°	6232
55°	753
60°	432
65°	0
70°	316
75°	1263
80°	0
85°	1238



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	916.5	11.3
10°-20°	2179.1	26.8
20°-30°	2714.8	33.4
30°-40°	1831.2	22.6
40°-50°	433.0	5.3
50°-60°	31.6	0.4
60°-70°	5.6	0.1
70°-80°	4.2	0.1
80°-90°	1.0	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°	5810.4	71.6
0°-40°	7641.6	94.1
0°-60°	8106.2	99.9
0°-90°	8117.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8117.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	10294	
5°	9996	916
15°	7738	2179
25°	6018	2715
35°	2935	1831
45°	470	433
55°	14	32
65°	0	6
75°	11	4
85°	4	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	10294.5
2.5°	10277.0
5°	9996.0
7.5°	9486.9
10°	8858.5
12.5°	8265.1
15°	7738.5
17.5°	7285.5
20°	6867.7
22.5°	6467.4
25°	6018.0
27.5°	5431.7
30°	4715.4
32.5°	3848.2
35°	2935.3
37.5°	2099.7
40°	1369.3
42.5°	818.1
45°	470.4
47.5°	263.3
50°	129.9
52.5°	59.7
55°	14.0
57.5°	3.5
60°	7.0
62.5°	10.6
65°	0.0
67.5°	7.0
70°	3.5
72.5°	3.5
75°	10.6
77.5°	0.0
80°	0.0
82.5°	0.0
85°	3.5
87.5°	0.0
90°	0.0

(END OF REPORT)