

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: P246955

Luminaire Tested: **LSR8B90D010 EC8B90830 8LBM0LI**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P246955  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-81)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B90D010 EC8B90830 8LBM0LI  
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
80 CRI 3000 CCT WITH SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9317.0 lumens  
Efficiency: N/A  
Efficacy: 108.2 lumens/watt  
Spacing Criteria (0/90/45): 0.67 / 0.67 / 0.75  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

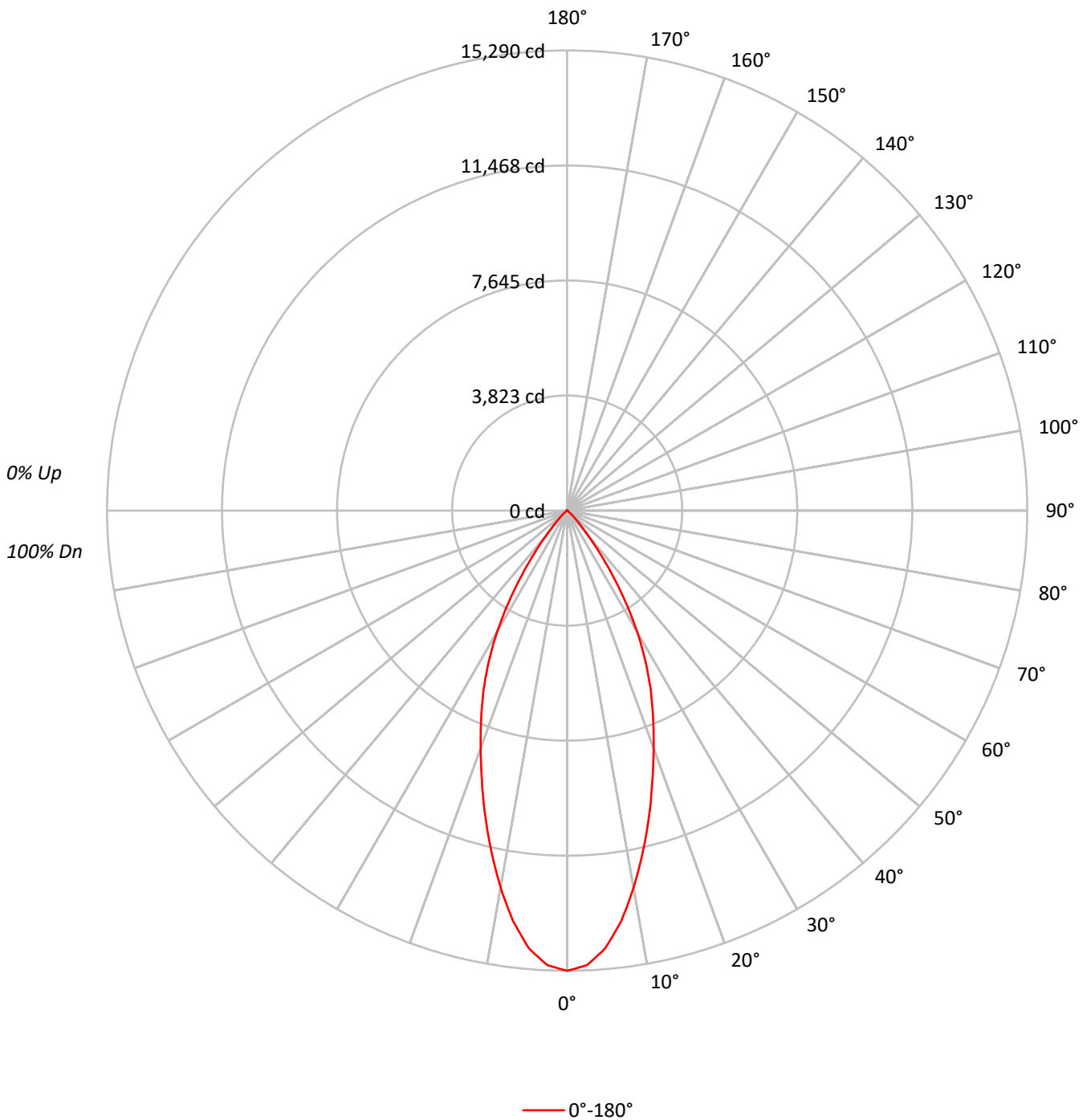
Input Watts (W): 86.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	109	107	111	109	107	105	105	103	102		101	100	99		98	97	96	94
2	109	104	100	97	107	102	99	96	99	96	94		96	94	92		94	92	90	88
3	104	98	93	89	102	96	92	89	94	90	87		91	88	86		89	87	85	83
4	99	92	87	83	97	91	86	82	89	85	81		87	83	80		85	82	79	78
5	94	87	81	77	93	86	81	77	84	79	76		82	78	75		81	77	75	73
6	90	82	76	72	89	81	76	72	79	75	71		78	74	71		77	73	70	69
7	86	77	72	68	85	77	71	68	75	71	67		74	70	67		73	69	67	65
8	82	73	68	64	81	73	67	64	72	67	63		71	66	63		70	66	63	62
9	79	70	64	60	78	69	64	60	68	63	60		67	63	60		67	63	60	58
10	75	66	61	57	74	66	61	57	65	60	57		64	60	57		64	60	57	55

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

	0°
0°	471472
5°	451815
10°	398402
15°	335752
20°	275675
25°	223436
30°	165415
35°	99569
40°	44340
45°	17239
50°	6184
55°	1806
60°	1270
65°	949
70°	99
75°	512
80°	0
85°	1521



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1332.6	14.3
10°-20°	2921.2	31.4
20°-30°	2979.2	32.0
30°-40°	1668.5	17.9
40°-50°	355.8	3.8
50°-60°	44.1	0.5
60°-70°	11.5	0.1
70°-80°	2.7	0.0
80°-90°	1.5	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°	7232.9	77.6
0°-40°	8901.4	95.5
0°-60°	9301.3	99.8
0°-90°	9317.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9317.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	15290	
5°	14596	###
15°	10517	2921
25°	6567	2979
35°	2645	1669
45°	395	356
55°	34	44
65°	13	11
75°	4	3
85°	4	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	15289.5
2.5°	15117.3
5°	14596.3
7.5°	13757.9
10°	12723.6
12.5°	11613.3
15°	10517.2
17.5°	9414.6
20°	8400.8
22.5°	7457.4
25°	6567.0
27.5°	5632.3
30°	4645.6
32.5°	3614.4
35°	2645.0
37.5°	1772.0
40°	1101.5
42.5°	658.5
45°	395.3
47.5°	219.9
50°	128.9
52.5°	68.2
55°	33.6
57.5°	23.8
60°	20.6
62.5°	9.7
65°	13.0
67.5°	13.0
70°	1.1
72.5°	3.2
75°	4.3
77.5°	2.2
80°	0.0
82.5°	1.1
85°	4.3
87.5°	0.0
90°	0.0

(END OF REPORT)