

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: P247868

Luminaire Tested: **LSR8B150D010 EC8B150927 8LBM0LI**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247868  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-90)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B150D010 EC8B150927 8LBMOLI  
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
97 CRI 2700 CCT WITH SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13002.8 lumens  
Efficiency: N/A  
Efficacy: 82.0 lumens/watt  
Spacing Criteria (0/90/45): 0.7 / 0.7 / 0.76  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

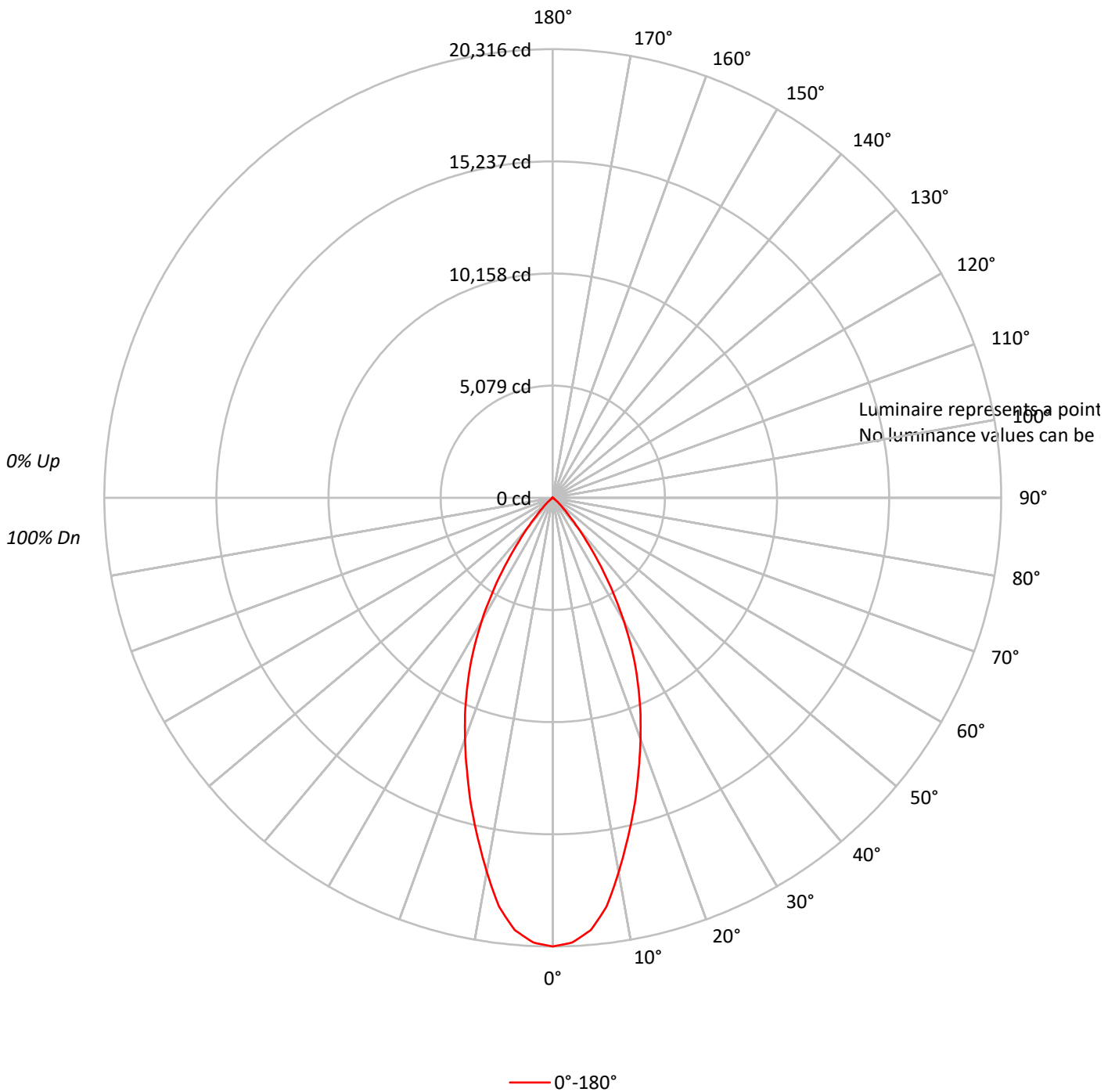
Input Watts (W): 158.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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	100	100	100		
1	114	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94	94	94	94	94		
2	109	104	100	97	106	102	99	96	99	96	94	96	94	92	93	91	90	88	88	88	88	88		
3	103	97	93	89	102	96	92	88	93	90	87	91	88	85	89	86	84	83	83	83	83	83		
4	99	91	86	82	97	90	86	82	88	84	81	86	83	80	84	81	79	78	78	78	78	78		
5	94	86	81	77	92	85	80	76	83	79	76	82	78	75	80	77	74	73	73	73	73	73		
6	90	81	76	72	88	80	75	71	79	74	71	78	73	70	76	73	70	68	68	68	68	68		
7	86	77	71	67	84	76	71	67	75	70	67	74	69	66	73	69	66	65	65	65	65	65		
8	82	73	67	63	80	72	67	63	71	66	63	70	66	62	69	65	62	61	61	61	61	61		
9	78	69	63	60	77	68	63	59	68	63	59	67	62	59	66	62	59	58	58	58	58	58		
10	75	66	60	56	74	65	60	56	64	59	56	64	59	56	63	59	56	55	55	55	55	55		

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





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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1797.9	13.8
10°-20°	3988.1	30.7
20°-30°	4119.8	31.7
30°-40°	2401.7	18.5
40°-50°	601.8	4.6
50°-60°	72.9	0.6
60°-70°	15.3	0.1
70°-80°	2.0	0.0
80°-90°	3.3	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°	9905.8	76.2
0°-40°	12307.5	94.7
0°-60°	12982.3	99.8
0°-90°	13002.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13002.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	20316	
5°	19658	###
15°	14338	3988
25°	9059	4120
35°	3798	2402
45°	683	602
55°	62	73
65°	10	15
75°	2	2
85°	0	3
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	20316.1
2.5°	20158.6
5°	19658.1
7.5°	18672.8
10°	17198.7
12.5°	15738.6
15°	14338.1
17.5°	12932.9
20°	11613.8
22.5°	10346.4
25°	9058.7
27.5°	7778.0
30°	6433.1
32.5°	5106.3
35°	3798.1
37.5°	2668.6
40°	1749.0
42.5°	1102.0
45°	683.0
47.5°	416.7
50°	224.8
52.5°	109.7
55°	61.9
57.5°	33.6
60°	29.0
62.5°	20.4
65°	10.2
67.5°	12.5
70°	8.7
72.5°	0.0
75°	1.6
77.5°	0.8
80°	1.6
82.5°	2.4
85°	0.0
87.5°	8.7
90°	0.0

(END OF REPORT)