

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: P246314

Luminaire Tested: **LSR8B20D010 EC8B20930 8LBW0B**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P246314  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-47)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B20D010 EC8B20930 8LBW0B  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
97 CRI 3000 CCT WITH SPECULAR BLACK TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1164.7 lumens  
Efficiency: N/A  
Efficacy: 54.7 lumens/watt  
Spacing Criteria (0/90/45): 1.08 / 1.08 / 1.02  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

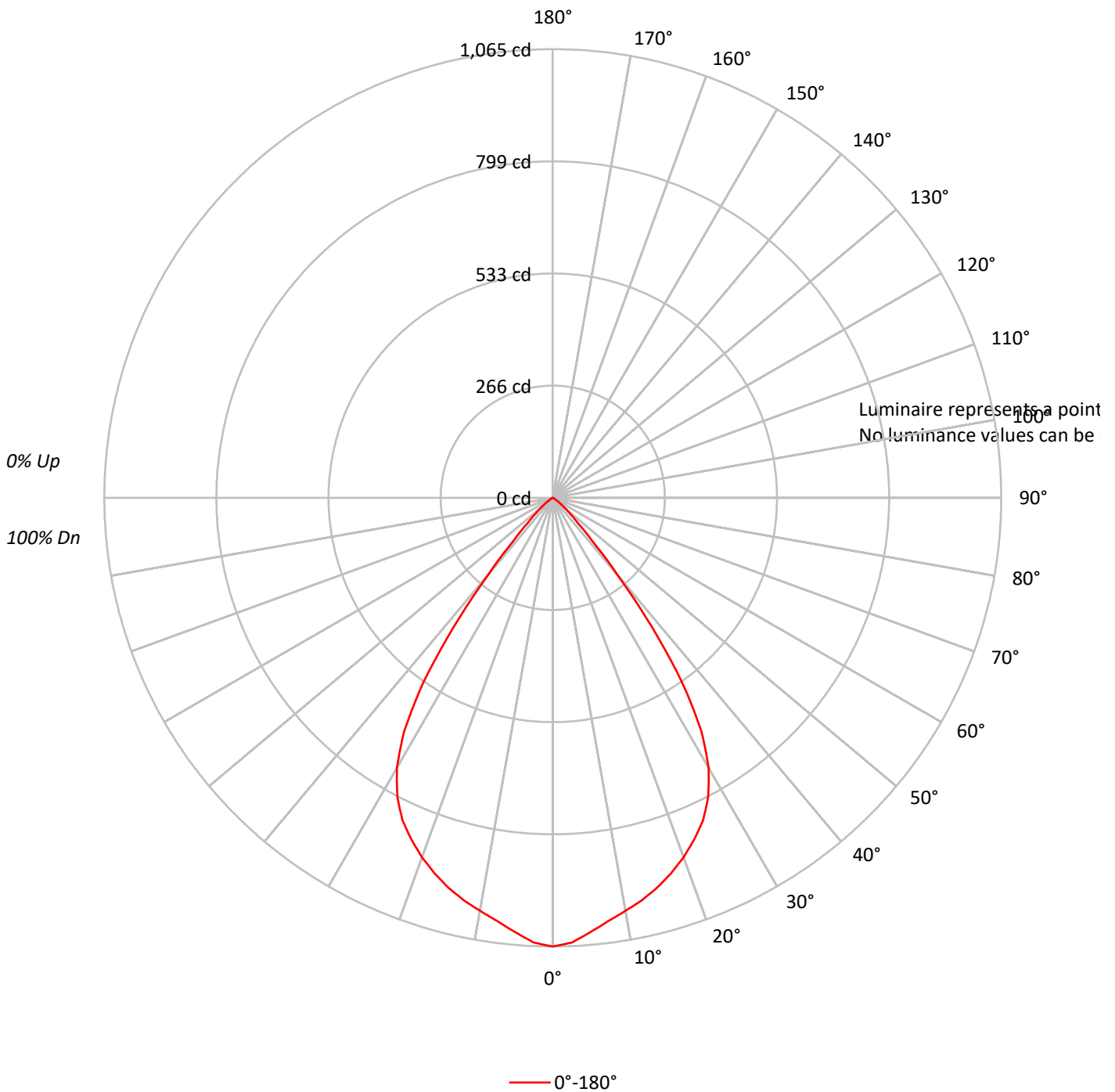
Input Watts (W): 21.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P246314

CATALOG NUMBER: LSR8B20D010 EC8B20930 8LBW0B

### Luminous Intensity Polar Plot





TEST NUMBER: P246314

CATALOG NUMBER: LSR8B20D010 EC8B20930 8LBW0B

**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20				
RC	80				70				50				30				10				
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100
1	113	110	108	106	111	108	106	104	104	102	101	101	99	98	97	96	95	93	93	93	93
2	107	102	98	95	105	101	97	94	97	94	92	94	92	90	92	90	88	86	86	86	86
3	102	95	90	86	100	94	89	85	91	87	84	89	85	82	86	84	81	80	80	80	80
4	96	88	83	78	94	87	82	78	85	80	77	83	79	76	81	78	75	74	74	74	74
5	91	82	76	72	89	81	76	71	80	75	71	78	74	70	76	73	70	68	68	68	68
6	86	77	71	66	85	76	70	66	74	69	65	73	68	65	72	68	65	63	63	63	63
7	82	72	66	61	80	71	65	61	70	64	61	69	64	60	67	63	60	58	58	58	58
8	77	67	61	57	76	67	61	57	66	60	56	65	60	56	64	59	56	54	54	54	54
9	73	63	57	53	72	63	57	53	62	56	52	61	56	52	60	55	52	51	51	51	51
10	70	59	53	49	68	59	53	49	58	53	49	57	52	49	57	52	49	47	47	47	47

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





TEST NUMBER: P246314

CATALOG NUMBER: LSR8B20D010 EC8B20930 8LBW0B

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	97.5	8.4
10°-20°	269.6	23.1
20°-30°	384.9	33.1
30°-40°	319.0	27.4
40°-50°	78.7	6.8
50°-60°	14.1	1.2
60°-70°	0.8	0.1
70°-80°	0.0	0.0
80°-90°	0.0	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°	752.0	64.6
0°-40°	1071.1	92.0
0°-60°	1163.9	99.9
0°-90°	1164.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1164.7	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1065	
5°	1034	98
15°	958	270
25°	844	385
35°	537	319
45°	84	79
55°	14	14
65°	1	1
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P246314

CATALOG NUMBER: LSR8B20D010 EC8B20930 8LBW0B

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1065.1
2.5°	1056.2
5°	1034.3
7.5°	1013.0
10°	995.3
12.5°	978.2
15°	958.0
17.5°	934.4
20°	907.8
22.5°	877.6
25°	844.4
27.5°	799.5
30°	740.4
32.5°	657.0
35°	537.0
37.5°	388.0
40°	238.9
42.5°	139.0
45°	84.0
47.5°	55.6
50°	37.2
52.5°	24.2
55°	13.6
57.5°	6.5
60°	2.9
62.5°	1.2
65°	0.6
67.5°	0.0
70°	0.0
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)