

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: P244796

Luminaire Tested: **LSR8B20D010 EC8B20927 8LBN0WMH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P244796  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P201884)  
Test Lab: INNOVATION CENTER-P1  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B20D010 EC8B20927 8LBN0WMH  
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
97 CRI 2700 CCT WITH WARM HAZE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1532.2 lumens  
Efficiency: N/A  
Efficacy: 71.9 lumens/watt  
Spacing Criteria (0/90/45): 0.74 / 0.74 / 0.79  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

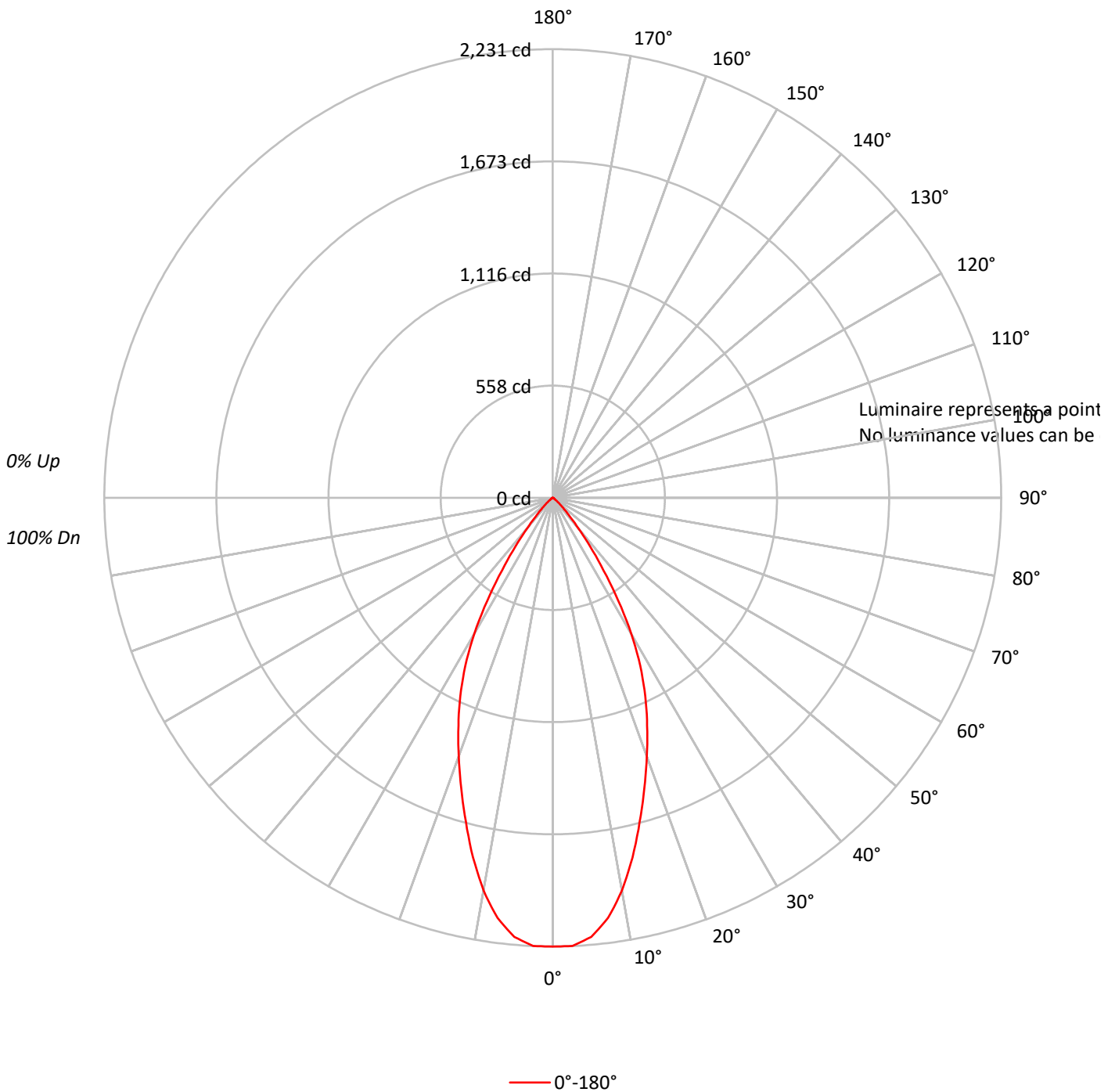
Input Watts (W): 21.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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			
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
1	114	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94	94	94
2	108	104	100	97	106	102	99	96	99	96	93	96	94	91	93	91	90	88	88	88
3	103	97	92	89	101	96	91	88	93	89	86	91	88	85	89	86	84	82	82	82
4	98	91	86	82	97	90	85	81	88	84	80	86	82	79	84	81	79	77	77	77
5	94	86	80	76	92	85	80	76	83	78	75	81	77	74	80	76	74	72	72	72
6	89	81	75	71	88	80	75	71	79	74	70	77	73	70	76	72	69	68	68	68
7	85	76	71	67	84	76	70	66	74	70	66	73	69	66	72	68	65	64	64	64
8	81	72	66	63	80	72	66	62	71	66	62	70	65	62	69	65	62	60	60	60
9	78	68	63	59	77	68	63	59	67	62	59	66	62	59	65	61	58	57	57	57
10	74	65	59	56	73	65	59	56	64	59	56	63	59	55	62	58	55	54	54	54

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





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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	202.4	13.2
10°-20°	465.2	30.4
20°-30°	493.6	32.2
30°-40°	281.7	18.4
40°-50°	69.8	4.6
50°-60°	13.7	0.9
60°-70°	4.1	0.3
70°-80°	0.9	0.1
80°-90°	0.7	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°	1161.3	75.8
0°-40°	1442.9	94.2
0°-60°	1526.5	99.6
0°-90°	1532.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1532.2	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2231	
5°	2192	202
15°	1670	465
25°	1090	494
35°	440	282
45°	79	70
55°	13	14
65°	3	4
75°	0	1
85°	1	1
90°	0	0
95°	0	0
105°	0	0
115°	0	0
125°	0	0
135°	0	0
145°	0	0
155°	0	0
165°	0	0
175°	0	0
180°	0	0



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	2231.4
2.5°	2230.4
5°	2192.0
7.5°	2107.6
10°	1982.7
12.5°	1832.0
15°	1669.6
17.5°	1514.9
20°	1367.8
22.5°	1226.2
25°	1089.7
27.5°	943.0
30°	781.2
32.5°	607.3
35°	440.4
37.5°	303.4
40°	196.2
42.5°	124.4
45°	78.9
47.5°	51.6
50°	32.4
52.5°	19.7
55°	12.7
57.5°	10.1
60°	6.5
62.5°	6.1
65°	3.0
67.5°	3.0
70°	2.6
72.5°	1.5
75°	0.0
77.5°	0.4
80°	0.4
82.5°	1.0
85°	1.0
87.5°	0.4
90°	0.0
92.5°	0.0
95°	0.0
97.5°	0.0
100°	0.0
102.5°	0.0
105°	0.0
107.5°	0.0
110°	0.0



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**CANDELA DISTRIBUTION (continued):**

	0°
112.5°	0.0
115°	0.0
117.5°	0.0
120°	0.0
122.5°	0.0
125°	0.0
127.5°	0.0
130°	0.0
132.5°	0.0
135°	0.0
137.5°	0.0
140°	0.0
142.5°	0.0
145°	0.0
147.5°	0.0
150°	0.0
152.5°	0.0
155°	0.0
157.5°	0.0
160°	0.0
162.5°	0.0
165°	0.0
167.5°	0.0
170°	0.0
172.5°	0.0
175°	0.0
177.5°	0.0
180°	0.0

(END OF REPORT)