

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: P250340

Luminaire Tested: **LSR8B120D010 EC8B120935 8LBN0GPH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P250340  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13948)  
Test Lab: INNOVATION CENTER-P1  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B120D010 EC8B120935 8LBN0GPH  
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
90 CRI 3500 CCT WITH GRAPHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8523.0 lumens  
Efficiency: N/A  
Efficacy: 72.0 lumens/watt  
Spacing Criteria (0/90/45): 0.69 / 0.69 / 0.77  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

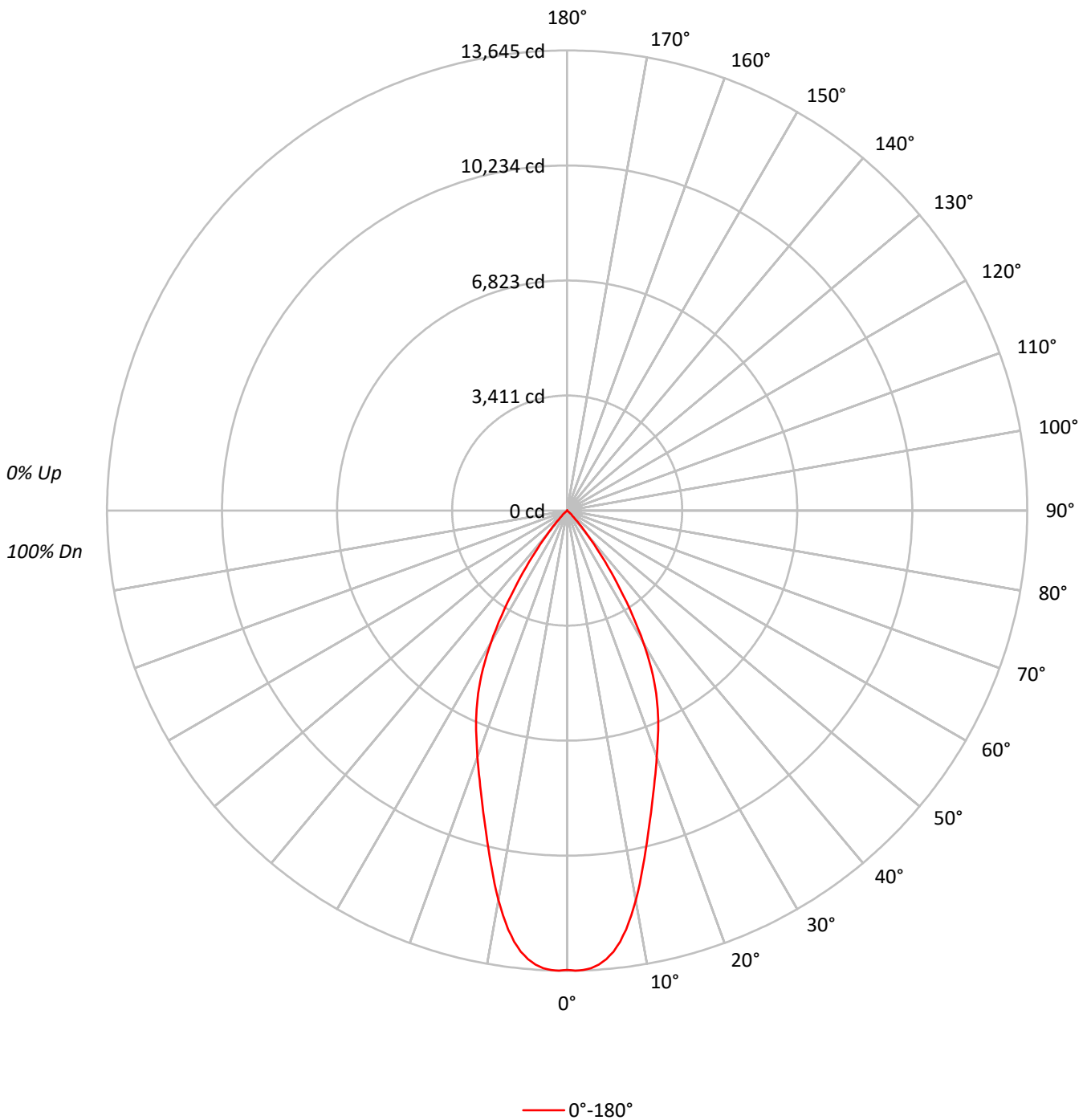
Input Watts (W): 118.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	109	107	112	109	107	105	105	104	102	101	100	99	98	97	96	94
2	109	104	101	97	107	103	99	96	99	97	94	96	94	92	94	92	90	89
3	104	98	93	90	102	97	92	89	94	90	88	92	89	86	89	87	85	83
4	99	92	87	83	97	91	86	83	89	85	82	87	84	81	85	82	80	78
5	95	87	82	78	93	86	81	77	84	80	77	83	79	76	81	78	75	74
6	90	82	77	73	89	81	76	72	80	75	72	79	75	71	77	74	71	70
7	86	78	72	68	85	77	72	68	76	71	68	75	71	67	74	70	67	66
8	83	74	68	64	81	73	68	64	72	67	64	71	67	64	70	66	63	62
9	79	70	65	61	78	70	64	61	69	64	61	68	63	60	67	63	60	59
10	76	67	61	58	75	66	61	58	65	61	57	65	60	57	64	60	57	56

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

	0°
0°	419957
5°	413247
10°	367162
15°	302877
20°	255080
25°	215148
30°	161088
35°	91167
40°	36047
45°	9677
50°	1857
55°	0
60°	265
65°	0
70°	0
75°	0
80°	0
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1222.6	14.3
10°-20°	2657.2	31.2
20°-30°	2852.7	33.5
30°-40°	1541.8	18.1
40°-50°	240.5	2.8
50°-60°	6.6	0.1
60°-70°	1.6	0.0
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°	6732.4	79.0
0°-40°	8274.2	97.1
0°-60°	8521.4	100.0
0°-90°	8523.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8523.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	13619	
5°	13350	###
15°	9487	2657
25°	6323	2853
35°	2422	1542
45°	222	241
55°	0	7
65°	0	2
75°	0	0
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	13618.9
1°	13644.8
2°	13631.9
3°	13585.3
4°	13495.6
5°	13350.3
6°	13150.3
7°	12881.3
8°	12544.5
9°	12156.9
10°	11725.9
11°	11273.8
12°	10804.8
13°	10336.2
14°	9900.8
15°	9487.4
16°	9107.8
17°	8741.0
18°	8399.9
19°	8080.5
20°	7773.2
21°	7474.7
22°	7193.0
23°	6912.1
24°	6617.8
25°	6323.4
26°	6024.8
27°	5683.9
28°	5308.5
29°	4925.2
30°	4524.1
31°	4093.6
32°	3662.5
33°	3236.3
34°	2805.7
35°	2421.8
37.5°	1547.8
40°	895.5
42.5°	477.7
45°	221.9
47.5°	119.6
50°	38.7
52.5°	4.3
55°	0.0
57.5°	4.3



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**CANDELA DISTRIBUTION (continued):**

	0°
60°	4.3
62.5°	0.0
65°	0.0
67.5°	4.3
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)