

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: P244348

Luminaire Tested: **LSR8B40D010 EC8B40935 8LBN0H**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P244348  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27944)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B40D010 EC8B40935 8LBN0H  
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
90 CRI 3500 CCT WITH SEMI-SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3399.0 lumens  
Efficiency: N/A  
Efficacy: 83.1 lumens/watt  
Spacing Criteria (0/90/45): 0.69 / 0.69 / 0.79  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

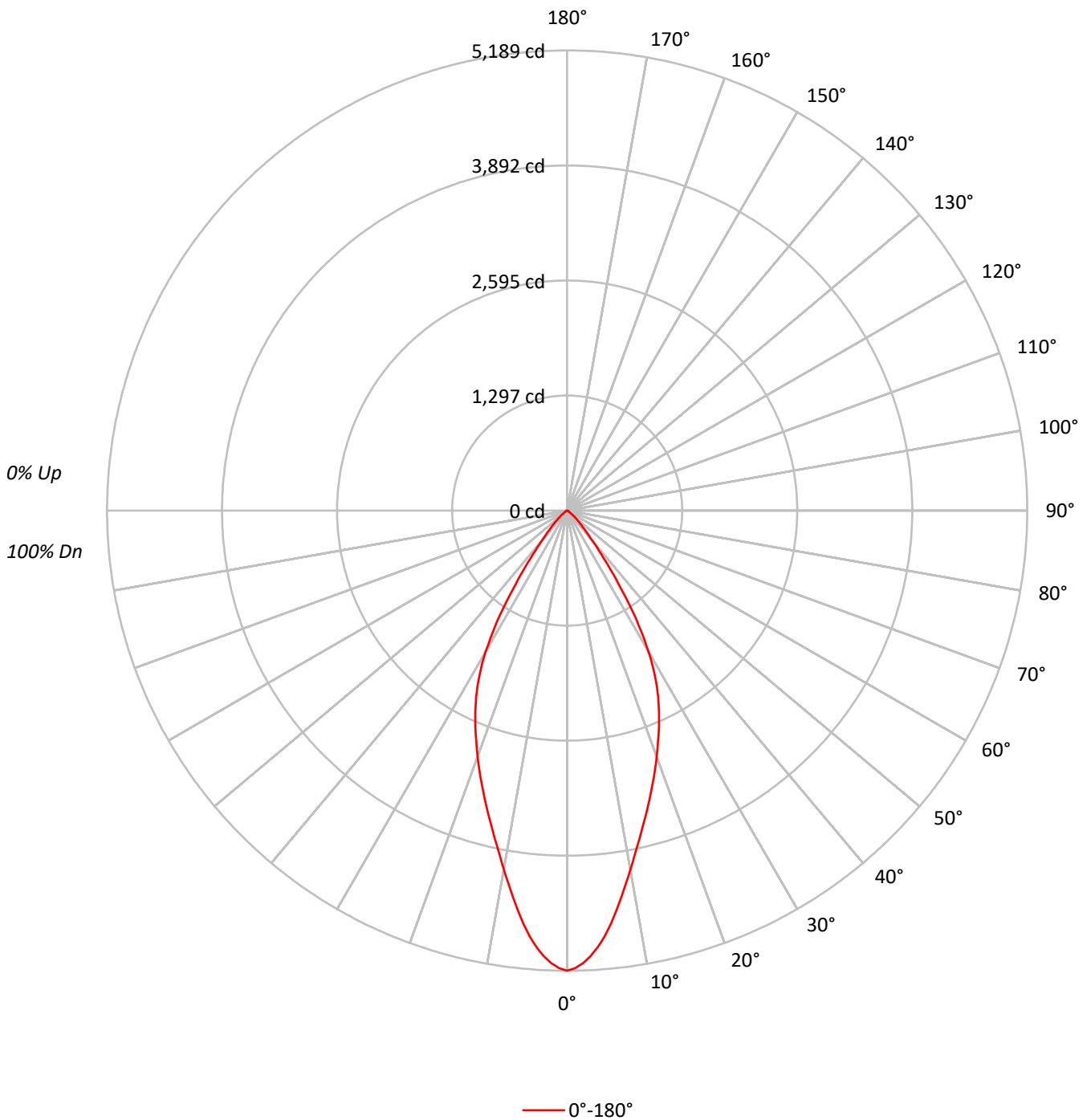
Input Watts (W): 40.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	106	111	109	107	105	105	103	101		101	100	98		98	97	96	94
2	108	104	100	96	106	102	98	95	99	96	93		96	93	91		93	91	89	88
3	103	97	92	88	101	95	91	87	93	89	86		90	87	85		88	86	83	82
4	98	91	85	81	96	90	85	81	87	83	80		85	82	79		84	80	78	76
5	93	85	79	75	92	84	79	75	82	78	74		81	77	74		79	76	73	72
6	89	80	74	70	87	79	74	70	78	73	69		76	72	69		75	71	69	67
7	85	76	70	66	83	75	69	65	74	69	65		72	68	65		71	67	64	63
8	81	71	66	62	79	71	65	61	70	65	61		69	64	61		68	64	61	59
9	77	68	62	58	76	67	62	58	66	61	58		65	61	58		64	60	57	56
10	74	64	59	55	73	64	58	55	63	58	55		62	58	54		61	57	54	53

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

	0°
0°	159997
5°	149239
10°	128642
15°	111332
20°	96848
25°	83230
30°	65399
35°	38156
40°	17607
45°	9110
50°	4572
55°	2220
60°	1135
65°	671
70°	307
75°	274
80°	195
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	436.3	12.8
10°-20°	975.1	28.7
20°-30°	1108.6	32.6
30°-40°	651.1	19.2
40°-50°	174.7	5.1
50°-60°	41.5	1.2
60°-70°	9.4	0.3
70°-80°	2.1	0.1
80°-90°	0.1	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°	2520.0	74.1
0°-40°	3171.1	93.3
0°-60°	3387.3	99.7
0°-90°	3399.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3399.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	5189	
5°	4821	436
15°	3487	975
25°	2446	1109
35°	1014	651
45°	209	175
55°	41	41
65°	9	9
75°	2	2
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	5188.6
1°	5159.9
2°	5107.1
3°	5032.5
4°	4936.1
5°	4821.3
6°	4691.6
7°	4544.6
8°	4397.7
9°	4249.6
10°	4108.4
11°	3970.7
12°	3840.9
13°	3720.4
14°	3599.9
15°	3487.4
16°	3377.2
17°	3268.1
18°	3162.5
19°	3055.8
20°	2951.3
21°	2846.8
22°	2747.0
23°	2648.3
24°	2547.2
25°	2446.2
26°	2341.8
27°	2228.1
28°	2108.7
29°	1977.9
30°	1836.7
32.5°	1440.6
35°	1013.6
37.5°	668.1
40°	437.4
42.5°	301.9
45°	208.9
47.5°	143.5
50°	95.3
52.5°	62.0
55°	41.3
57.5°	27.6
60°	18.4
62.5°	12.6
65°	9.2



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**CANDELA DISTRIBUTION (continued):**

	0°
67.5°	5.7
70°	3.4
72.5°	2.3
75°	2.3
77.5°	1.1
80°	1.1
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)